

For more info, please contact us.



Industrial Interface Module



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► INDUSTRIAL INTERFACE MODULE

Electrical connection system selection guide



Personnel: More than 500 employees, of which R&D engineers account for 15%

Service network: 6 direct marketing and service centers in Shanghai, Shenzhen, Dongguan, Suzhou, Beijing and Nanjing

Design and manufacture: Full-chain production of product design, mold design and manufacturing, stamping, turning, injection molding, assembly and testing, with independent intellectual property

Certificates and systems: National high-tech enterprises, provincial scientific research centers, CNAS accredited laboratories, ISO9001, etc. Three systems in one, UL, CE, CQC and other certifications

Quality Policy:

Rigorous and realistic, Excellent quality
Excellent service, Sustainable development

COMPANY MISSION

We are committed to providing professional electrical connection solutions for our partners

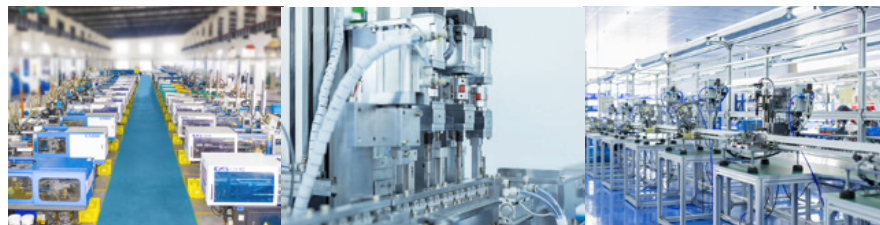
COMPANY VALUE

Same goal,same ideal,
fighting together !

COMPANY VISION

weare committed to keeping China'selectric connection technology in
step with the world.

Creat better return on investment and experience for global customers.



+
SOME
DISPLAY
PICTURES



Absorption Innovation Sinceretrust Independant manufacturing

Industrial Automation

Industrial automation is the future trend which produce products by using auto control, auto adjustment device instead of manual operation.

Power

The safety, stability, and sufficient supply of electricity are important guarantees for the comprehensive, coordinated, and sustainable development of the national economy.

Mechanical Manufacture

Mechanical manufacture mainly includes power machinery, lifting and transportation machinery, chemical machinery, machine tools, and other mechanical equipment, which providing advanced equipment for the entire national economy.

Logistics Equipment

Logistics machinery is one of the main operational tools for modern enterprises, playing an important role in logistics operations and greatly promoting the rapid development of logistics.

Shipbuilding

From the changes in China's shipbuilding industry's share of the world shipbuilding market in the past decade, it can be seen that the proportion of China's shipbuilding industry in the global market is significantly increasing. China has become one of the important shipbuilding centers in the world.

Information and Communication

The arrival of the 5G era, with its characteristics of high speed, low latency, and the Internet of Things, is driving a new wave of technology.

Rail Transit

Rail transit mainly includes three categories: national railway system, intercity rail transit, and urban rail transit.



To be the Leader of Electrical connector



+
Application field





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RTP-S-O series Ultrathin optocoupler module

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RTP-S-SSR series Ultrathin solid state relay module

048



RTP-S-R series Slim module

058



RTP-T-R series Slim module

060



ARJ series Compact power relays

062



ARM series General power relays

068



ARL series General power relays

074



ARC-P series Miniature power relays

080



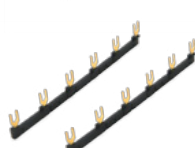
TP-S-I-... series Ultrathin signal isolator

086



RSI series Signal isolators

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Annex

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RUG-O Series

Photoelectric coupler



Composed of standard wiring terminals and circuit boards with photoelectric couplers and peripheral electronic components, the products are used for various automatic protection and control lines, especially for digital signal isolation and amplification, with the following characteristics:

- Modular M3 screw clamp type with uniform appearance
- Rich input voltage specifications (5V... 230V AC/DC) for all kinds of industrial control circuit boards and systems
- Various output current specifications (50mA,100mA,200mA,300mA,500mA,1A,2A,5A,10A)
- Output (load) voltage applies 5V...300V DC
- Equipped with indicator
- Electrical isolation between input and output, isolation voltage up to 2.5kv RMS
- 6.2mm ultra-thin standard module, saving installation space
- Standard clamped with DIN-35 and G rail

RUG –O Coding for photoelectric couplers function terminal

RUG -O - 110 VDC - H - 50mA

- Maximum output current: 50mA, 100mA, 200mA, 300mA, 500mA, 1A, 2A, 5A, 10A.

– Output voltage: L: Low voltage ; H: High voltage

– rated input voltage: DC:5V,12V,24V,48V,60V,110V,220V
AC: 24V,48V,60V,110V,220V

- Function: O-Optoelectric Coupler

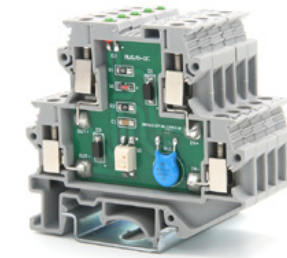
- Suitable for DIN35 and G type rail mounting screw connection series products

* The "width" listed in the product parameters is the size from the top to the foot of the clamp

* The end plate model of this product is "D-RUG-O-L GY", and the size of end plate is height H65.8 × width W48.5 × thickness THK1.5mm

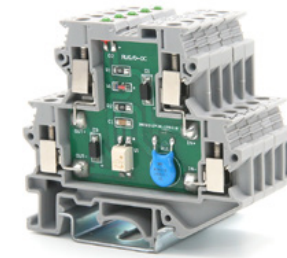
RUG-O Series

Photoelectric coupler



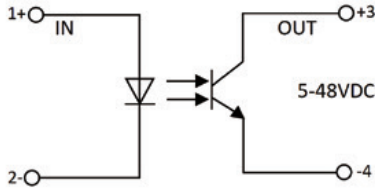
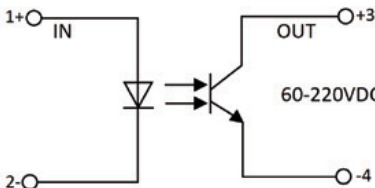
RUG-O... DC-L-50mA

DC voltage input



RUG-O... DC-H-50mA

DC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V DC	RUG - O - 110V DC - L -50mA	RUG - O - 110V DC - H -50mA
	220V DC	RUG - O - 220V DC - L -50mA	RUG - O - 220V DC - H -50mA
Schematic ¹⁾			
			
Input parameters			
Rated input voltageU _N		110V DC	220V DC
Input high level range		93.5...132V DC	187...264V DC
Typical input current at input low range U _N		0...33V DC	0...66V DC
		< 3.1mA	< 3mA
Output parameters			
Output (load) voltage range		5...48VDC	5...48VDC
Maximum continuous current		50mA	50mA
Output leakage current (OFF state)		≤20μA	≤20μA
output voltage drop		≤1V	≤1V
On-delay at U _N		≤500μs	≤500μs
Turn-off delay at U _N		≤800μs	≤800μs
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity		2KV	2KV
Group pulse immunity		4KV	4KV
Electrostatic discharge immunity		8KV	8KV
Specification			
Working temperature		-10℃...+50℃	-10℃...+50℃
stored temperature		-25℃...+70℃	-25℃...+70℃
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity		5%...95% RH without condensation	5%...95% RH without condensation
pollution level		3	3
Overvoltage category		III	III
Protection type		IP20	IP20
Insulation material type		Nylon	Nylon
color		Grey	Grey
Flammability rating		V0 (UL94)	V0 (UL94)
compliance		CE	CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10
Reference standard		IEC60947-5-1 GB/T14048.5	

1) The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... AC-L-50mA

AC voltage input



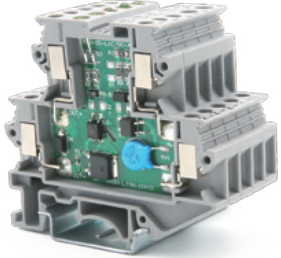
RUG-O... AC-H-50mA

AC voltage input

Description	Input Voltage	Item NO.		Item NO.	
RUG-O optocoupler series	110V AC	RUG - O - 110V AC - L -50mA		RUG - O - 110V AC - H -50mA	
	220V AC	RUG - O - 220V AC - L -50mA		RUG - O - 220V AC - H -50mA	
Schematic ¹⁾					
Input parameters					
Rated input voltageU _N		110V AC	220V AC	110V AC	220V AC
Input high level range		93.5...132V AC	187...264V AC	93.5...132V AC	187...264V AC
Typical input current at input low range U _N		0...33V AC	0...66V AC	0...33V AC	0...66V AC
		< 3.1mA	< 3mA	<3.1mA	<3mA
Output parameters					
Output (load) voltage range		5...48V DC	5...48V DC	60...220V DC	60...220V DC
Maximum continuous current		50mA	50mA	50mA	50mA
Output leakage current (OFF state)		≤20μA	≤20μA	≤20μA	≤20μA
output voltage drop		≤1V	≤1V	≤1V	≤1V
On-delay at U _N		≤80ms	≤80ms	≤80ms	≤80ms
Turn-off delay at U _N		≤50ms	≤50ms	≤50ms	≤50ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)	
Surge immunity		2KV		2KV	
Group pulse immunity		4KV		4KV	
Electrostatic discharge immunity		8KV		8KV	
Specification					
Working temperature		-10℃...+50℃		-10℃...+50℃	
stored temperature		-25℃...+70℃		-25℃...+70℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm		65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation	
pollution level		3		3	
Overvoltage category		III		III	
Protection type		IP20		IP20	
Insulation material type		Nylon		Nylon	
color		Grey		Grey	
Flammability rating		V0 (UL94)		V0 (UL94)	
compliance		CE		CE	
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0		0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals		M3 Screw Clamp Terminals	
Stripping length	mm	9...10		9...10	
Reference standard		IEC60947-5-1 GB/T14048.5			

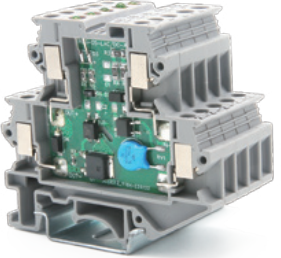
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... DC-L-100mA

DC voltage input



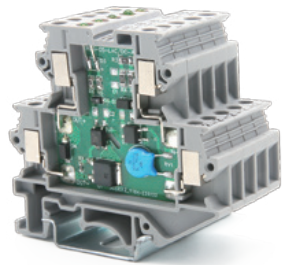
RUG-O... DC-L-100mA

DC voltage input

Description	Input Voltage	Item NO.		Item NO.	
RUG-O optocoupler series	5V DC	RUG - O - 5V DC - L -100mA			
	12V DC	RUG - O - 12V DC - L -100mA			
	24V DC			RUG - O - 24V DC - L -100mA	
	48V DC			RUG - O - 48V DC - L -100mA	
	60V DC			RUG - O - 60V DC - L -100mA	
Schematic ¹⁾					
Input parameters					
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N		0...0.7V DC	0...4V DC	0...12V DC	0...12V DC 0...12V DC
		< 10mA	< 12mA	<11mA	<5mA <6mA
Output parameters					
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC 5...72V DC
Maximum continuous current		100mA	100mA	100mA	100mA 100mA
Output leakage current (OFF state)		≤10μA	≤10μA	≤10μA	≤10μA ≤10μA
output voltage drop		≤1V	≤1V	≤1V	≤1V ≤1V
On-delay at U _N		≤6μs	≤6μs	≤6μs	≤8μs ≤8μs
Turn-off delay at U _N		≤220μs	≤220μs	≤220μs	≤200μs ≤200μs
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)	
Surge immunity		2KV		2KV	
Group pulse immunity		4KV		4KV	
Electrostatic discharge immunity		8KV		8KV	
Specification					
Working temperature		-25℃...+70℃		-25℃...+70℃	
stored temperature		-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm		65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation	
pollution level		3		3	
Overvoltage category		III		III	
Protection type		IP20		IP20	
Insulation material type		Nylon		Nylon	
color		Grey		Grey	
Flammability rating		V0 (UL94)		V0 (UL94)	
compliance		CE		CE	
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0		0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals		M3 Screw Clamp Terminals	
Stripping length	mm	9...10		9...10	
Reference standard		IEC60947-5-1 GB/T14048.5			

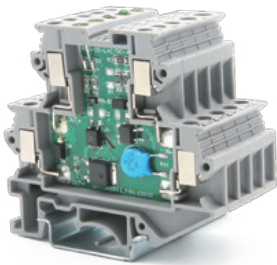
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... DC-L-100mA

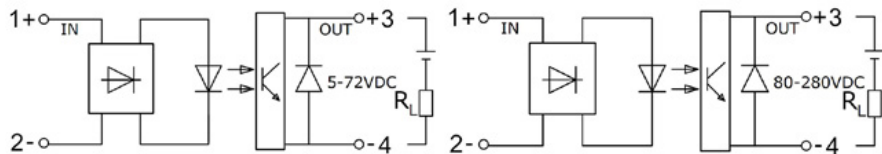
DC voltage input



RUG-O... DC-H-100mA

DC voltage input

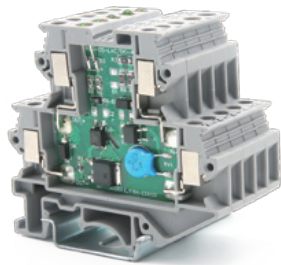
Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V DC	RUG - O - 110V DC - L -100mA	
	220V DC	RUG - O - 220V DC - L -100mA	
	5V DC		RUG - O - 5V DC - H -100mA
	12VDC		RUG - O - 12V DC - H -100mA
Schematic ¹⁾			



Input parameters				
Rated input voltageU _N	110V DC	220V DC	5V DC	12V DC
Input high level range	88...132V DC	176...264V DC	4...6V DC	9.6...15V DC
Typical input current at input low range U _N	0...40V DC < 4.5mA	0...40V DC < 4mA	0...0.7V DC <10mA	0...4V DC <12mA
Output parameters				
Output (load) voltage range	5...72V DC	5...72V DC	80...280V DC	80...280V DC
Maximum continuous current	100mA	100mA	100mA	100mA
Output leakage current (OFF state)	≤10μA	≤10μA	≤10μA	≤10μA
output voltage drop	≤1V	≤1V	≤1.4V	≤1.4V
On-delay at U _N	≤10μs	≤12μs	≤10μs	≤10μs
Turn-off delay at U _N	≤180μs	≤180μs	≤290μs	≤290μs
Dielectric and Electromagnetic Compatibility				
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)	
Surge immunity	2KV		2KV	
Group pulse immunity	4KV		4KV	
Electrostatic discharge immunity	8KV		8KV	
Specification				
Working temperature	-25℃...+70℃		-25℃...+70℃	
stored temperature	-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm		65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation	
pollution level	3		3	
Overvoltage category	III		III	
Protection type	IP20		IP20	
Insulation material type	Nylon		Nylon	
color	Grey		Grey	
Flammability rating	V0 (UL94)		V0 (UL94)	
compliance	CE		CE	
Wiring Data				
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals	
Stripping length	mm	9...10	9...10	
Reference standard				
	IEC60947-5-1 GB/T14048.5			

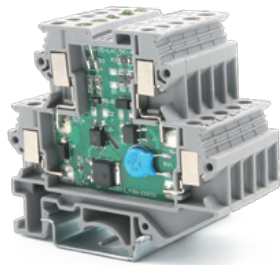
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... DC-H-100mA

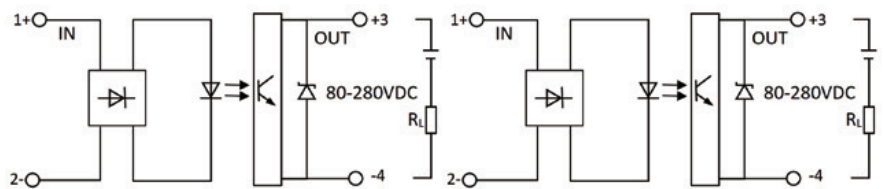
DC voltage input



RUG-O... DC-H-100mA

DC voltage input

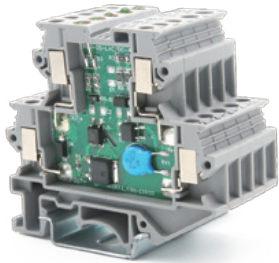
Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	24V DC	RUG - O - 24V DC - H -100mA	
	48V DC	RUG - O - 48V DC - H -100mA	
	60V DC	RUG - O - 60V DC - H -100mA	
	110V DC		RUG - O - 110V DC - H -100mA
	220VDC		RUG - O - 220V DC - H -100mA
Schematic ¹⁾			



Input parameters						
Rated input voltageU _N		24V DC	48V DC	60V DC	110V DC	220V DC
Input high level range		19...30V DC	38...58V DC	48...72V DC	88...132V DC	176...264V DC
Typical input current at input low range U _N		0...12V DC < 11mA	0...12V DC < 5mA	0...12V DC < 6mA	0...40V DC <4.5mA	0...40V DC <4mA
Output parameters						
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		100mA	100mA	500mA	100mA	100mA
Output leakage current (OFF state)		≤10μA	≤10μA	≤10μA	≤10μA	≤10μA
output voltage drop		≤1.4V	≤1.4V	≤1.4V	≤1.4V	≤1.4V
On-delay at U _N		≤10μs	≤12μs	≤8μs	≤10μs	≤12μs
Turn-off delay at U _N		≤290μs	≤250μs	≤200μs	≤180μs	≤180μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals	
Stripping length	mm	9...10			9...10	
Reference standard		IEC60947-5-1 GB/T14048.5				

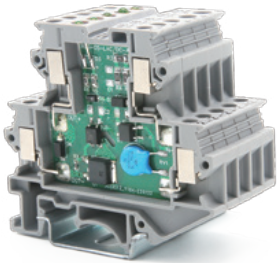
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... AC-L-100mA

AC voltage input

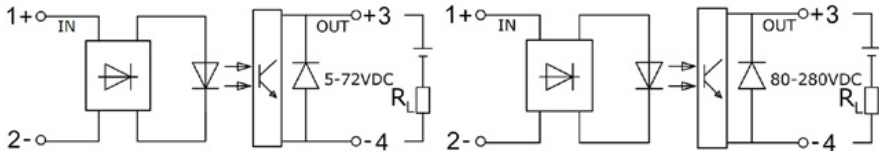


RUG-O... AC-H-100mA

AC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	24V AC	RUG - O - 24V AC - L -100m A	RUG - O - 24V AC - H -100m A
	110V AC	RUG - O - 110V AC - L -100m A	RUG - O - 110V AC - H -100m A
	220V AC	RUG - O - 220V AC - L -100m A	RUG - O - 220V AC - H -100m A

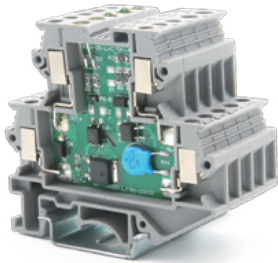
Schematic ¹⁾		
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Input parameters							
Rated input voltageU _N		24V AC	110V AC	220V AC	24V AC	110V AC	220V AC
Input high level range		19...30V AC	88...132V AC	176...264V AC	19...30V AC	88...132V DC	176...264V AC
Typical input current at input		0...12V AC	0...40V AC	0...40V AC	0...12V AC	0...40V AC	0...40V AC
low range U _N		< 11mA	< 5mA	< 4mA	< 11mA	<5mA	<4mA
Output parameters							
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		100mA	100mA	100mA	100mA	100mA	100mA
Output leakage current (OFF state)		≤10uA	≤10uA	≤10uA	≤10uA	≤10uA	≤10uA
output voltage drop		≤1V	≤1V	≤1V	≤1.4V	≤1.4V	≤1.4V
On-delay at U _N		≤10ms	≤15ms	≤15ms	≤10ms	≤15ms	≤15ms
Turn-off delay at U _N		≤35ms	≤60ms	≤60ms	≤35ms	≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility							
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)		
Surge immunity		2KV			2KV		
Group pulse immunity		4KV			4KV		
Electrostatic discharge immunity		8KV			8KV		
Specification							
Working temperature		-25℃...+70℃			-25℃...+70℃		
stored temperature		-40℃...+85℃			-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm		
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation		
pollution level		3			3		
Overvoltage category		III			III		
Protection type		IP20			IP20		
Insulation material type		Nylon			Nylon		
color		Grey			Grey		
Flammability rating		V0 (UL94)			V0 (UL94)		
compliance		CE			CE		
Wiring Data							
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0		
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals		
Stripping length	mm	9...10			9...10		
Reference standard		IEC60947-5-1 GB/T14048.5					

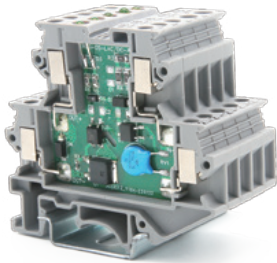
1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... DC-L-xxmA

DC voltage input

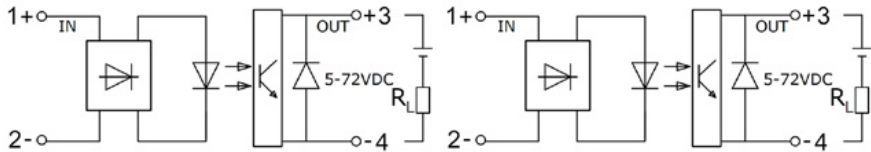


RUG-O... DC-L-xxmA

DC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	5V DC	RUG - O - 5V DC - L -xxmA(200,300,500mA optional)	
	12V DC	RUG - O - 12V DC - L -xxmA(200,300,500mA optional)	
	24V DC	RUG - O - 24V DC - L -xxmA(200,300,500mA optional)	
	48V DC	RUG - O - 48V DC - L -xxmA(200,300,500mA optional)	
	60V DC		

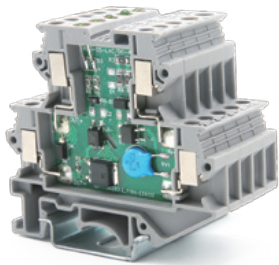
Schematic ¹⁾		
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Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC < 5mA	0...12V DC < 6mA
Output parameters						
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC	5...72V DC
Maximum continuous current		500mA	500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤10μA	≤10μA	≤10μA	≤10μA	≤10μA
output voltage drop		≤1V	≤1V	≤1V	≤1V	≤1V
On-delay at U _N		≤6μs	≤6μs	≤6μs	≤8μs	≤8μs
Turn-off delay at U _N		≤90μs	≤90μs	≤90μs	≤70μs	≤70μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals	
Stripping length	mm	9...10			9...10	
Reference standard		IEC60947-5-1 GB/T14048.5				

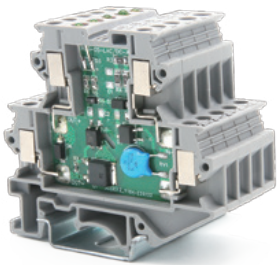
1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O...DC-L-xxmA

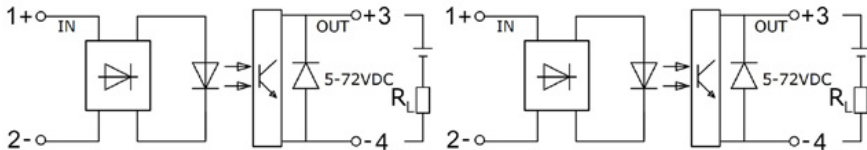
DC voltage input



RUG-O...AC-L-xxmA

AC voltage input

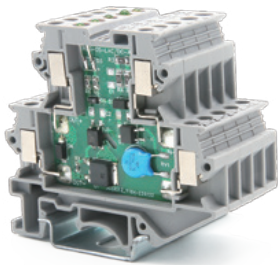
Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V DC	RUG - O - 110V DC - L -xxmA(200,300,500mA optional)	
	220V DC	RUG - O - 220V DC - L -xxmA(200,300,500mA optional)	
	24V AC		RUG - O - 24V AC - L -xxmA(200,300,500mA optional)
	48V AC		RUG - O - 48V AC - L -xxmA(200,300,500mA optional)
	60V AC		RUG - O - 60V AC - L -xxmA(200,300,500mA optional)
Schematic ¹⁾			



Input parameters					
Rated input voltageU _N	110VDC	220VDC	24V AC	48V AC	60V AC
Input high level range	88...132V DC	176...264V DC	19...30V AC	38...58V AC	48...72V AC
Typical input current at input low range U _N	0...40V DC < 4.5mA	0...40V DC < 4mA	0...12V AC <11mA	0...12V AC <5mA	0...12V AC <6mA
Output parameters					
Output (load) voltage range	5...72V DC	5...72V DC	5...72V DC	5...72V DC	5...72V DC
Maximum continuous current	500mA	500mA	500mA	500mA	500mA
Output leakage current (OFF state)	≤10μA	≤10μA	≤10μA	≤10μA	≤10μA
output voltage drop	≤1V	≤1V	≤1V	≤1V	≤1V
On-delay at U _N	≤10μs	≤12μs	≤10ms	≤10ms	≤10ms
Turn-off delay at U _N	≤70μs	≤70μs	≤35ms	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)		
Surge immunity	2KV		2KV		
Group pulse immunity	4KV		4KV		
Electrostatic discharge immunity	8KV		8KV		
Specification					
Working temperature	-25℃...+70℃		-25℃...+70℃		
stored temperature	-40℃...+85℃		-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm		65.8×59.3×6.2mm		
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation		
pollution level	3		3		
Overvoltage category	III		III		
Protection type	IP20		IP20		
Insulation material type	Nylon		Nylon		
color	Grey		Grey		
Flammability rating	V0 (UL94)		V0 (UL94)		
compliance	CE		CE		
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0		
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals		
Stripping length	mm	9...10	9...10		
Reference standard					
	IEC60947-5-1 GB/T14048.5				

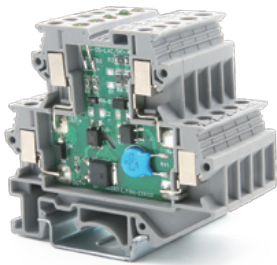
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... AC-L-xxmA

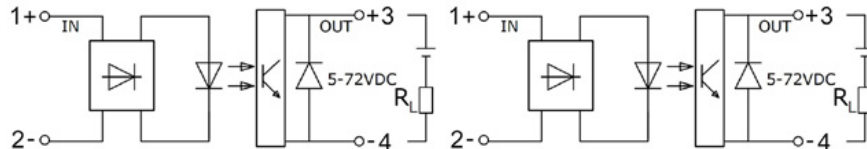
AC voltage input



RUG-O... AC-L-xxmA

AC voltage input

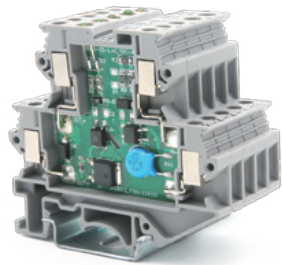
Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V AC	RUG - O - 110V AC -L-xxmA(200,300,500mA optional)	
	220V AC		RUG - O - 220V AC -L-xxmA(200,300,500mA optional)
Schematic ¹⁾			



Input parameters		
Rated input voltageU _N	110V AC	220V AC
Input high level range	88...132V AC	176...264V AC
Typical input current at input low range U _N	0...40V AC <5mA	0...40V AC <4mA
Output parameters		
Output (load) voltage range	5...72V DC	5...72V DC
Maximum continuous current	500mA	500mA
Output leakage current (OFF state)	≤10μA	≤10μA
output voltage drop	≤1V	≤1V
On-delay at U _N	≤15ms	≤15ms
Turn-off delay at U _N	≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	
Surge immunity	2KV	
Group pulse immunity	4KV	
Electrostatic discharge immunity	8KV	
Specification		
Working temperature	-25℃...+70℃	
stored temperature	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	
pollution level	3	
Overvoltage category	III	
Protection type	IP20	
Insulation material type	Nylon	
color	Grey	
Flammability rating	V0 (UL94)	
compliance	CE	
Wiring Data		
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals
Stripping length	mm	9...10
Reference standard		
	IEC60947-5-1 GB/T14048.5	

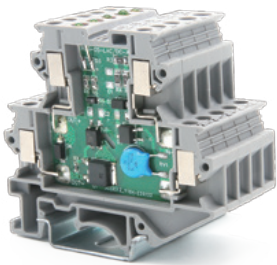
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O...DC-H-xxmA

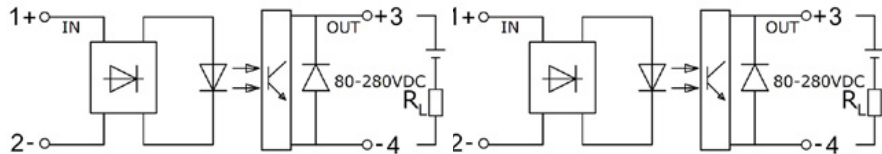
Dc voltage input



RUG-O...DC-H-xxmA

DC voltage input

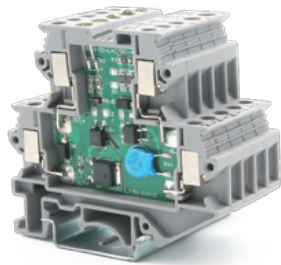
Description	Input Voltage	Item NO.	Item NO.
RUG-R Built-in relay series	5V DC	RUG - O - 5V DC - H -xxmA(200,300,500mA optional)	
	12V DC	RUG - O - 12V DC - H -xxmA(200,300,500mA optional)	
	24V DC	RUG - O - 24V DC - H -xxmA(200,300,500mA optional)	
	48V DC		RUG - O - 48V DC - H -xxmA(200,300,500mA optional)
	60V DC		RUG - O - 60V DC - H -xxmA(200,300,500mA optional)
Schematic ¹⁾			



Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC < 5mA	0...12V DC < 6mA
Output parameters						
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		500mA	500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤20μA	≤20μA	≤20μA	≤20μA	≤20μA
output voltage drop		≤1.6V	≤1.6V	≤1.6V	≤1.6V	≤1.6V
On-delay at U _N		≤10μs	≤10μs	≤10μs	≤12μs	≤12μs
Turn-off delay at U _N		≤800μs	≤800μs	≤800μs	≤700μs	≤700μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals	
Stripping length	mm	9...10			9...10	
Reference standard		IEC60947-5-1 GB/T14048.5				

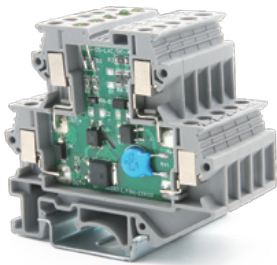
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O...DC-H-xxmA

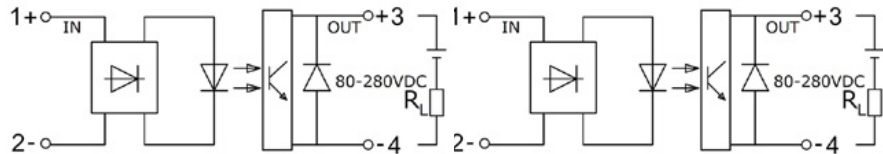
DC voltage input



RUG-O...AC-H-xxmA

AC voltage input

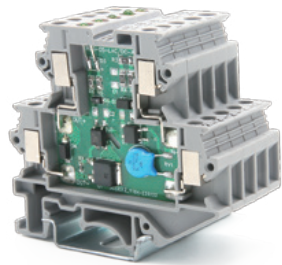
Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V DC	RUG - O - 110V DC - H -xxmA(200,300,500mA optional)	
	220V DC	RUG - O - 220V DC - H -xxmA(200,300,500mA optional)	
	24V AC		RUG - O - 24V AC - H -xxmA(200,300,500mA optional)
	48V AC		RUG - O - 48V AC - H -xxmA(200,300,500mA optional)
	60V AC		RUG - O - 60V AC - H -xxmA(200,300,500mA optional)
Schematic ¹⁾			



Input parameters						
Rated input voltage U _N		110VDC	220VDC	24V AC	48V AC	60V AC
Input high level range		88...132V DC	176...264V DC	19...30V AC	38...58V AC	48...72V AC
Typical input current at input low range U _N		0...40V DC < 4.5mA	0...40V DC < 4mA	0...12V AC < 11mA	0...12V AC < 5mA	0...12V AC < 6mA
Output parameters						
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		500mA	500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤20μA	≤20μA	≤20μA	≤20μA	≤20μA
output voltage drop		≤1.6V	≤1.6V	≤1.6V	≤1.6V	≤1.6V
On-delay at U _N		≤14μs	≤16μs	≤10ms	≤10ms	≤10ms
Turn-off delay at U _N		≤650μs	≤650μs	≤35ms	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)		
Surge immunity		2KV		2KV		
Group pulse immunity		4KV		4KV		
Electrostatic discharge immunity		8KV		8KV		
Specification						
Working temperature		-25℃...+70℃		-25℃...+70℃		
stored temperature		-40℃...+85℃		-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm		65.8×59.3×6.2mm		
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation		
pollution level		3		3		
Overvoltage category		III		III		
Protection type		IP20		IP20		
Insulation material type		Nylon		Nylon		
color		Grey		Grey		
Flammability rating		V0 (UL94)		V0 (UL94)		
compliance		CE		CE		
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0		0.2...6.0 / 0.2...4.0		
Wiring form		M3 Screw Clamp Terminals		M3 Screw Clamp Terminals		
Stripping length	mm	9...10		9...10		
Reference standard		IEC60947-5-1 GB/T14048.5				

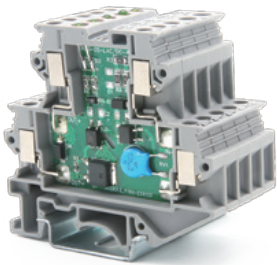
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... AC-H-xxmA

AC voltage input



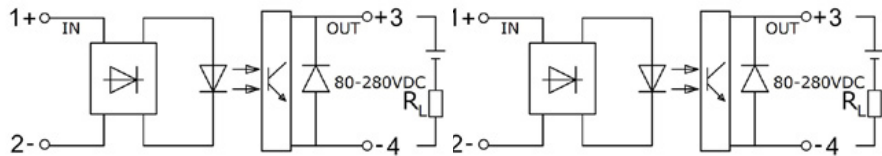
RUG-O... AC-H-xxmA

AC voltage input

Description	Input Voltage	Item NO.	Item NO.
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RUG-O optocoupler series	110V AC	RUG - O - 110V AC -H-xxmA(200,300,500mA optional)	RUG - O - 220V AC -H-xxmA(200,300,500mA optional)
	220V AC		

Schematic ¹⁾		
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Input parameters		
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Rated input voltageU _N	110V AC	220V AC
Input high level range	88...132V AC	176...264V AC
Typical input current at input low range U _N	0...40V AC <4.5mA	0...40V AC <4mA

Output parameters		
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Output (load) voltage range	80...280V DC	80...280V DC
Maximum continuous current	500mA	500mA
Output leakage current (OFF state)	≤20μA	≤20μA
output voltage drop	≤1.6V	≤1.6V
On-delay at U _N	≤15ms	≤15ms
Turn-off delay at U _N	≤60ms	≤60ms

Dielectric and Electromagnetic Compatibility		
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Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV

Specification		
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Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	3
Overvoltage category	III	III
Protection type	IP20	IP20
Insulation material type	Nylon	Nylon
color	Grey	Grey
Flammability rating	V0 (UL94)	V0 (UL94)
compliance	CE	CE

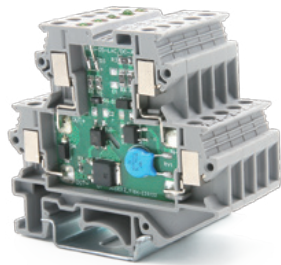
Wiring Data		
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Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10

Reference standard		
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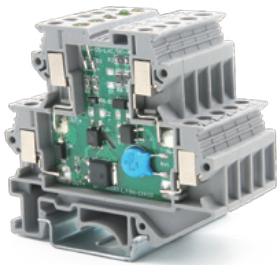
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... DC-L-xxA

DC voltage input



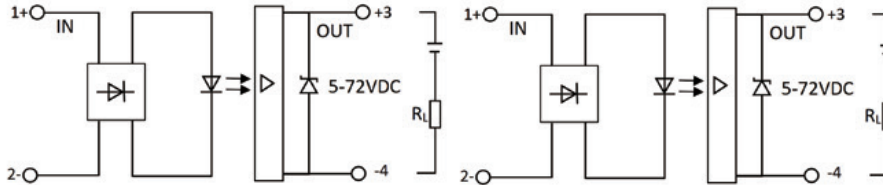
RUG-O... DC-L-xxA

DC voltage input

Description	Input Voltage	Item NO.	Item NO.
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RUG-O optocoupler series	5V DC	RUG - O - 5V DC - L -xxA(1,2,5,10A optional) RUG - O - 12V DC - L -xxA(1,2,5,10A optional) RUG - O - 24V DC - L -xxA(1,2,5,10A optional) RUG - O - 48V DC - L -xxA(1,2,5A optional) RUG - O - 60V DC - L -xxA(1,2,5A optional)	
	12V DC		
	24V DC		
	48V DC		
	60V DC		

Schematic ¹⁾		
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Input parameters					
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Rated input voltageU _N	5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range	4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N	0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC < 5mA	0...12V DC < 6mA

Output parameters					
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Output (load) voltage range	5...72V DC	5...72V DC	5...72V DC	5...72V DC	5...72V DC
Maximum continuous current	5A	5A	5A	5A	5A
Output leakage current (OFF state)	≤1μA	≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop	≤0.2V	≤0.2V	≤0.2V	≤0.2V	≤0.2V
On-delay at U _N	≤14μs	≤14μs	≤14μs	≤20μs	≤20μs
Turn-off delay at U _N	≤110μs	≤110μs	≤110μs	≤100μs	≤100μs

Dielectric and Electromagnetic Compatibility		
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Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV

Specification		
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Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	3
Overvoltage category	III	III
Protection type	IP20	IP20
Insulation material type	Nylon	Nylon
color	Grey	Grey
Flammability rating	V0 (UL94)	V0 (UL94)
compliance	CE	CE

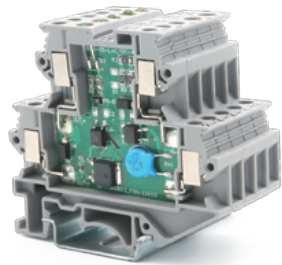
Wiring Data		
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Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10

Reference standard		
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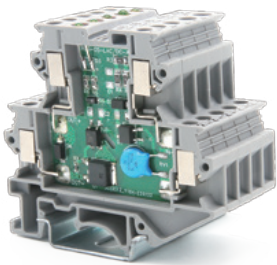
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



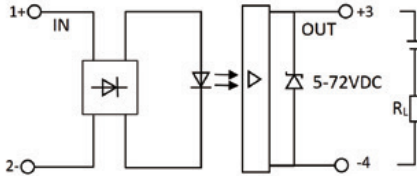
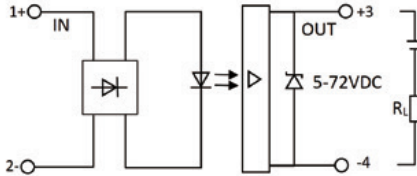
RUG-O...DC-L-xxA

DC voltage input



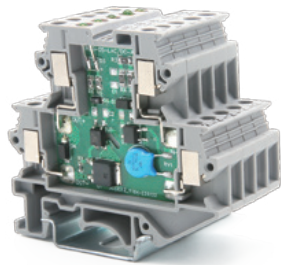
RUG-O...AC-L-xxA

AC voltage input

Description	Input Voltage	Item NO.		Item NO.					
RUG-O optocoupler series	110V DC	RUG - O - 110V DC - L -xxA(1,2,5A optional) RUG - O - 220V DC - L -xxA(1,2,5A optional)			RUG - O - 24V AC - L -xxA(1,2,5A optional) RUG - O - 48V AC - L -xxA(1,2,5A optional) RUG - O - 60V AC - L -xxA(1,2,5A optional)				
	220V DC								
	24V AC								
	48V AC								
	60V AC								
Schematic ¹⁾									
 									
Input parameters									
Rated input voltageU _N		110VDC	220VDC	24V AC	48V AC	60V AC			
Input high level range		88...132V DC	176...264V DC	19...30V AC	38...58V AC	48...72V AC			
Typical input current at input low range U _N		0...40V DC < 5mA	0...40V DC < 4mA	0...12V AC <11mA	0...12V AC <5mA	0...12V AC <6mA			
Output parameters									
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC	5...72V DC			
Maximum continuous current		5A	5A	5A	5A	5A			
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA	≤1μA			
output voltage drop		≤0.2V	≤0.2V	≤0.2V	≤0.2V	≤0.2V			
On-delay at U _N		≤22μs	≤30μs	≤12ms	≤12ms	≤12ms			
Turn-off delay at U _N		≤90μs	≤90μs	≤35ms	≤40ms	≤40ms			
Dielectric and Electromagnetic Compatibility									
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)				
Surge immunity		2KV			2KV				
Group pulse immunity		4KV			4KV				
Electrostatic discharge immunity		8KV			8KV				
Specification									
Working temperature		-25℃...+70℃			-25℃...+70℃				
stored temperature		-40℃...+85℃			-40℃...+85℃				
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm				
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation				
pollution level		3			3				
Overvoltage category		III			III				
Protection type		IP20			IP20				
Insulation material type		Nylon			Nylon				
color		Grey			Grey				
Flammability rating		V0 (UL94)			V0 (UL94)				
compliance		CE			CE				
Wiring Data									
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0				
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals				
Stripping length	mm	9...10			9...10				
Reference standard		IEC60947-5-1 GB/T14048.5							

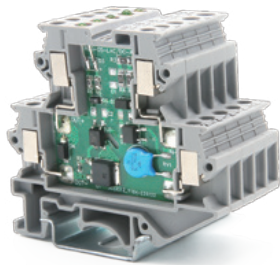
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



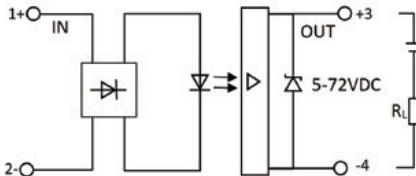
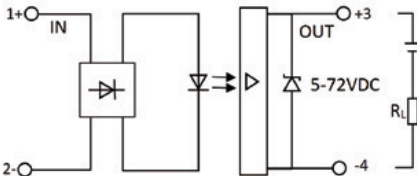
RUG-O... AC-L-xxA

AC voltage input



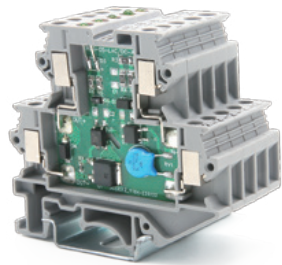
RUG-O... AC-L-xxA

AC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V AC	RUG - O - 110V AC -L-xxA(1,2,5A optional)	RUG - O - 220V AC -L-xxA(1,2,5A optional)
	220V AC		
Schematic ¹⁾			
 			
Input parameters			
Rated input voltageU _N	110V AC	220V AC	
Input high level range	88...132V AC	176...264V AC	
Typical input current at input low range U _N	0...40V AC <5mA	0...40V AC <4mA	
Output parameters			
Output (load) voltage range	5...72V DC	5...72V DC	
Maximum continuous current	5A	5A	
Output leakage current (OFF state)	≤1μA	≤1μA	
output voltage drop	≤0.2V	≤0.2V	
On-delay at U _N	≤15ms	≤15ms	
Turn-off delay at U _N	≤60ms	≤60ms	
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)	
Surge immunity	2KV	2KV	
Group pulse immunity	4KV	4KV	
Electrostatic discharge immunity	8KV	8KV	
Specification			
Working temperature	-25℃...+70℃	-25℃...+70℃	
stored temperature	-40℃...+85℃	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation	
pollution level	3	3	
Overvoltage category	III	III	
Protection type	IP20	IP20	
Insulation material type	Nylon	Nylon	
color	Grey	Grey	
Flammability rating	V0 (UL94)	V0 (UL94)	
compliance	CE	CE	
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals	
Stripping length	mm	9...10	
Reference standard		IEC60947-5-1 GB/T14048.5	

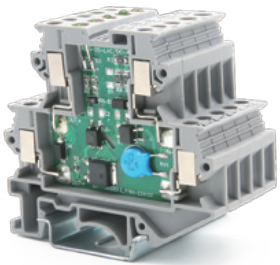
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O...DC-H-xxA

DC voltage input



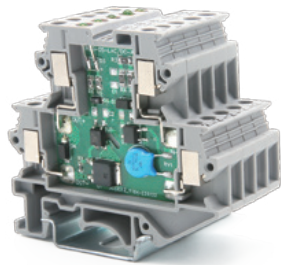
RUG-O...DC-H-xxA

DC voltage input

Description	Input Voltage	Item NO.			Item NO.	
RUG-O optocoupler series	5V DC	RUG - O - 5V DC - H -xxA(1,2A optional)			RUG - O - 48V DC - H -xxA(1,2A optional) RUG - O - 60V DC - H -xxA(1,2A optional)	
	12V DC	RUG - O - 12V DC - H -xxA(1,2A optional)				
	24V DC	RUG - O - 24V DC - H -xxA(1,2A optional)				
	48V DC					
	60V DC					
Schematic ¹⁾						
Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 9mA	0...4V DC < 9mA	0...12V DC < 10mA	0...12V DC < 5mA	0...12V DC < 5.5mA
Output parameters						
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		2A	2A	2A	2A	2A
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop		≤0.4V	≤0.4V	≤0.4V	≤0.4V	≤0.4V
On-delay at U _N		≤10μs	≤11μs	≤11μs	≤14μs	≤14μs
Turn-off delay at U _N		≤170μs	≤150μs	≤150μs	≤130μs	≤130μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals	
Stripping length	mm	9...10			9...10	
Reference standard		IEC60947-5-1 GB/T14048.5				

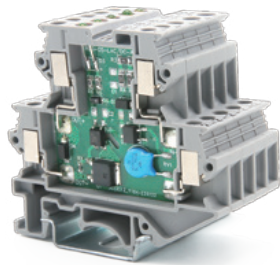
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O...DC-H-xxA

DC voltage input



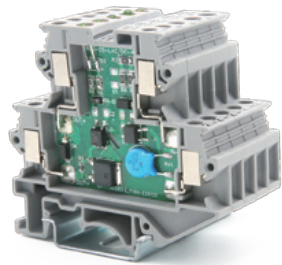
RUG-O...AC-H-xxA

AC voltage input

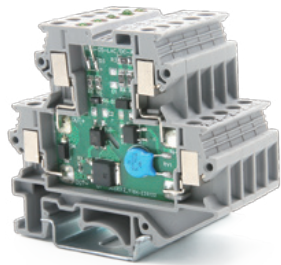
Description	Input Voltage	Item NO.		Item NO.		
RUG-O optocoupler series	110V DC	RUG - O - 110V DC - H -xxA(1,2Aoptional)				
	220V DC	RUG - O - 220V DC - H -xxA(1,2Aoptional)				
	24V AC	RUG - O - 24V AC -H -xxA(1,2A optional)				
	48V AC	RUG - O - 48V AC -H -xxA(1,2A optional)				
	60V AC	RUG - O - 60V AC - H -xxA(1,2A optional)				
Schematic ¹⁾						
Input parameters						
Rated input voltageU _N		110VDC	220VDC	24V AC	48V AC	60V AC
Input high level range		88...132V DC	176...264V DC	19...30V AC	38...58V AC	48...72V AC
Typical input current at input low range U _N		0...40V DC < 4.5mA	0...40V DC < 4mA	0...12V AC <11mA	0...12V AC <5mA	0...12V AC <6mA
Output parameters						
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		2A	2A	2A	2A	2A
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop		≤0.4V	≤0.4V	≤0.4V	≤0.4V	≤0.4V
On-delay at U _N		≤14μs	≤17μs	≤12ms	≤12ms	≤12ms
Turn-off delay at U _N		≤130us	≤110μs	≤35ms	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)		
Surge immunity		2KV		2KV		
Group pulse immunity		4KV		4KV		
Electrostatic discharge immunity		8KV		8KV		
Specification						
Working temperature		-25℃...+70℃		-25℃...+70℃		
stored temperature		-40℃...+85℃		-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm		65.8×59.3×6.2mm		
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation		
pollution level		3		3		
Overvoltage category		III		III		
Protection type		IP20		IP20		
Insulation material type		Nylon		Nylon		
color		Grey		Grey		
Flammability rating		V0 (UL94)		V0 (UL94)		
compliance		CE		CE		
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0		0.2...6.0 / 0.2...4.0		
Wiring form		M3 Screw Clamp Terminals		M3 Screw Clamp Terminals		
Stripping length	mm	9...10		9...10		
Reference standard		IEC60947-5-1 GB/T14048.5				

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-O Series
Photoelectric coupler



RUG-O... AC-H-xxA
AC voltage input

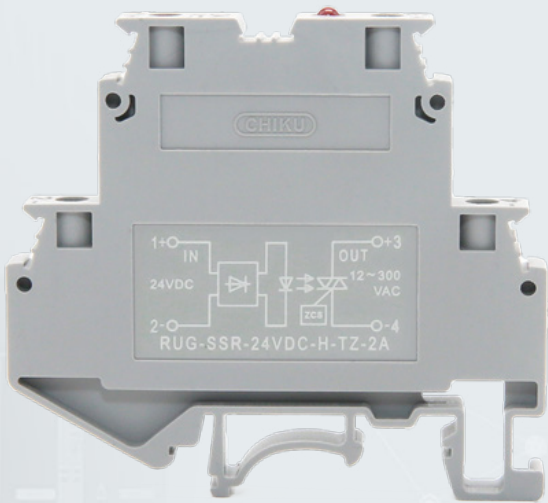


RUG-O... AC-H-xxA
AC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-O optocoupler series	110V AC 220V AC	RUG - O - 110V AC -H-xxA(1,2A optional)	RUG - O - 220V AC -H-xxA(1,2A optional)
Schematic ¹⁾			
Input parameters			
Rated input voltageU _N	110V AC	220V AC	
Input high level range	88...132V AC	176...264V AC	
Typical input current at input low range U _N	0...40V AC <4.5mA	0...40V AC <4mA	
Output parameters			
Output (load) voltage range	80...280V DC	80...280V DC	
Maximum continuous current	2A	2A	
Output leakage current (OFF state)	≤1μA	≤1μA	
output voltage drop	≤0.4V	≤0.4V	
On-delay at U _N	≤15ms	≤15ms	
Turn-off delay at U _N	≤60ms	≤60ms	
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)	
Surge immunity	2KV	2KV	
Group pulse immunity	4KV	4KV	
Electrostatic discharge immunity	8KV	8KV	
Specification			
Working temperature	-25℃...+70℃	-25℃...+70℃	
stored temperature	-40℃...+85℃	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation	
pollution level	3	3	
Overvoltage category	III	III	
Protection type	IP20	IP20	
Insulation material type	Nylon	Nylon	
color	Grey	Grey	
Flammability rating	V0 (UL94)	V0 (UL94)	
compliance	CE	CE	
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10
Reference standard		IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

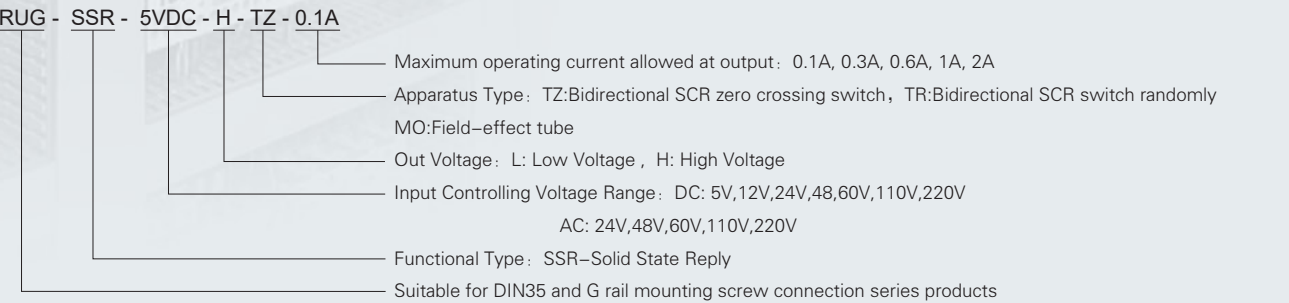
RUG-SSR series
Solid state relay



Composed of standard wiring terminals and circuit boards with solid state relays and peripheral electronic components, the products are used for various automatic protection and control lines, especially for digital signal isolation and amplification, with the following characteristics:

- Modular products with uniform appearance, M3 screw clamp connection form
- Rich input voltage specifications (5V... 230V AC/DC) for all kinds of industrial control lines and systems
- Various output current specifications (0.1A, 0.3A, 0.6A, 1A, 2A) ;
- Output voltage is widely applicable 5V...400V
- Equipped with indicator
- Electrical isolation between input and output
- 6.2mm ultra-thin standard module, saving installation space
- Standard clamped with DIN-35 and G rail

RUG-SSR Coding for solid state relay model function terminal

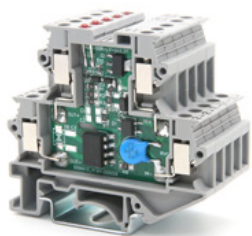
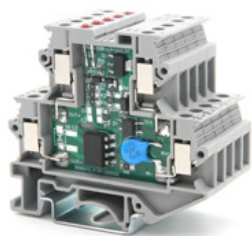


* The "width" listed in the product parameters is the size from the top to the foot of the clamp

* The end plate model of this product is "D-RUG-O-L GY", and the size of end plate is height H658 × width W48.5 × thickness THK1.5mm

RUG-SSR series

Solid state relay



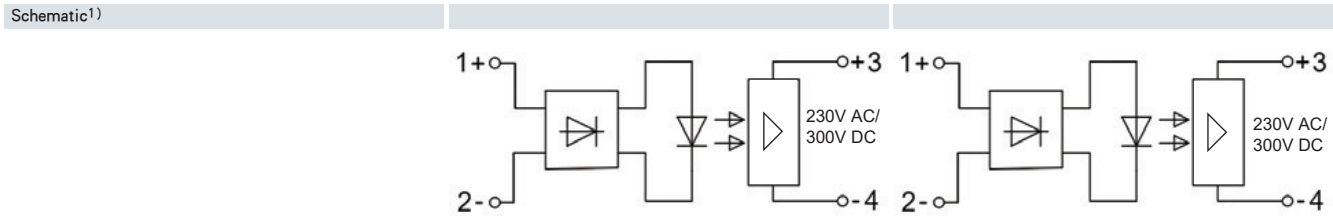
RUG-SSR...DC-...-0.1A

DC voltage input

RUG-SSR...DC-...-0.1A

DC voltage input

Description	Input Voltage	Item No.	Item No.
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	5V DC	RUG-SSR - 5VDC - H - MO - 0.1A	
	12V DC	RUG-SSR - 12VDC - H - MO - 0.1A	
	24V DC	RUG-SSR - 24VDC - H - MO - 0.1A	
	48V DC		RUG-SSR - 48VDC - H - MO - 0.1A
	60V DC		RUG-SSR - 60VDC - H - MO - 0.1A

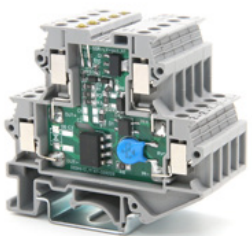
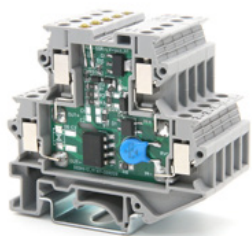


Input parameters				
Rated input voltageU _N	5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range	4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N	0...2V DC <10mA	0...4V DC <12mA	0...12V DC <11mA	0...12V DC < 5mA 0...12V DC < 6mA
Output parameters				
Output (load) voltage range	30...230V AC / 48...300V DC		30...230V AC / 48...300V DC	
Maximum continuous current	0.1A		0.1A	
Output leakage current (OFF state)	≤1μA		≤1μA	
output voltage drop	≤5.5V		≤5.5V	
On-delay at U _N	≤1ms		≤1ms	
Turn-off delay at U _N	≤0.5ms		≤0.5ms	
Dielectric and Electromagnetic Compatibility				
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)	
Surge immunity	2KV		2KV	
Group pulse immunity	4KV		4KV	
Electrostatic discharge immunity	8KV		8KV	
Specification				
Working temperature	-25℃...+70℃		-25℃...+70℃	
stored temperature	-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm		65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation	
pollution level	3		3	
Overvoltage category	III		III	
Protection type	IP20		IP20	
Insulation material type	Nylon		Nylon	
color	Grey		Grey	
Flammability rating	V0 (UL94)		V0 (UL94)	
compliance	CE		CE	
Wiring Data				
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals	
Stripping length	mm	9...10	9...10	
Reference standard				
	IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay



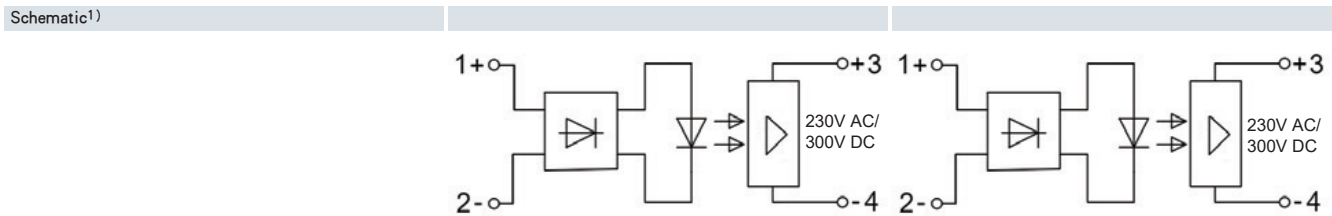
RUG-SSR...DC...0.1A

DC voltage input

RUG-SSR...AC...0.1A

AC voltage input

Description	Input Voltage	Item No.	Item No.
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	24V AC		RUG-SSR - 24VAC - H - MO - 0.1A
	110V DC	RUG-SSR - 110VDC - H - MO - 0.1A	
	220V DC	RUG-SSR - 220VDC - H - MO - 0.1A	

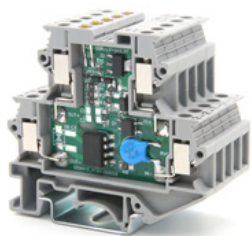
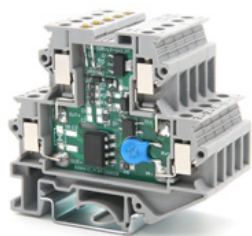


Input parameters			
Rated input voltageU _N	110V DC	220V DC	24V AC
Input high level range	88...132V DC	176...264V DC	19...30V AC
Typical input current at input low range U _N	0...40V DC < 5mA	0...40V DC < 4mA	0...12V AC < 11mA
Output parameters			
Output (load) voltage range	30...230V AC / 48...300V DC		30...230V AC / 48...300V DC
Maximum continuous current	0.1A		0.1A
Output leakage current (OFF state)	≤1μA		≤1μA
output voltage drop	≤5.5V		≤5.5V
On-delay at U _N	≤1ms		≤10ms
Turn-off delay at U _N	≤0.5ms		≤35ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)
Surge immunity	2KV		2KV
Group pulse immunity	4KV		4KV
Electrostatic discharge immunity	8KV		8KV
Specification			
Working temperature	-25℃...+70℃		-25℃...+70℃
stored temperature	-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm		65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation
pollution level	3		3
Overvoltage category	III		III
Protection type	IP20		IP20
Insulation material type	Nylon		Nylon
color	Grey		Grey
Flammability rating	V0 (UL94)		V0 (UL94)
compliance	CE		CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10
Reference standard			
	IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1		

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay

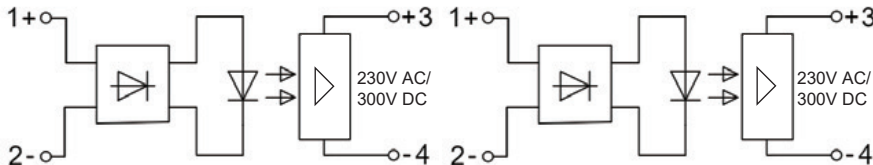


RUG-SSR...AC-...-0.1A

AC voltage input

RUG-SSR...AC-...-0.1A

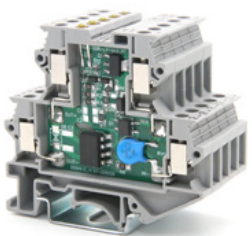
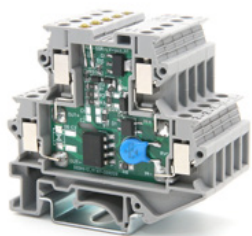
AC voltage input

Description	Input Voltage	Item No.		Item No.
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	48V AC	RUG-SSR - 48VAC - H - MO - 0.1A		RUG-SSR - 110VAC - H - MO - 0.1A RUG-SSR - 220VAC - H - MO - 0.1A
	60V AC	RUG-SSR - 60VAC - H - MO - 0.1A		
	110V AC			
	220V AC			
Schematic ¹⁾				
				
Input parameters				
Rated input voltageU _N		48V AC	60V AC	110V AC
Input high level range		38...58V AC	48...72V AC	88...132V AC
Typical input current at input low range U _N		0...12V AC	0...12V AC	0...40V AC
		<5mA	<6mA	<5mA
Output parameters				
Output (load) voltage range		30...230V AC / 48...300V DC		30..230V AC / 48...300V DC
Maximum continuous current		0.1A		0.1A
Output leakage current (OFF state)		≤1μA		≤1μA
output voltage drop		≤5.5V		≤5.5V
On-delay at U _N		≤10ms		≤12ms
Turn-off delay at U _N		≤45ms		≤65ms
Dielectric and Electromagnetic Compatibility				
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)
Surge immunity		2KV		2KV
Group pulse immunity		4KV		4KV
Electrostatic discharge immunity		8KV		8KV
Specification				
Working temperature		-25℃...+70℃		-25℃...+70℃
stored temperature		-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm		65.8×59.3×6.2mm
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation
pollution level		3		3
Overvoltage category		III		III
Protection type		IP20		IP20
Insulation material type		Nylon		Nylon
color		Grey		Grey
Flammability rating		V0 (UL94)		V0 (UL94)
compliance		CE		CE
Wiring Data				
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0		0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals		M3 Screw Clamp Terminals
Stripping length	mm	9...10		9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1		

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay

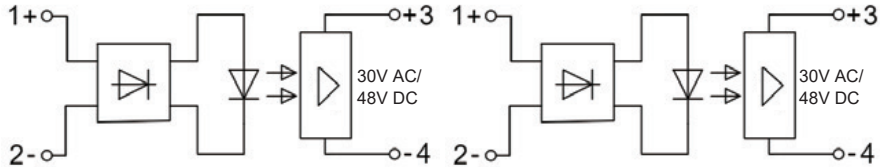


RUG-SSR...DC-...-0.1A

DC voltage input

RUG-SSR...DC-...-0.1A

DC voltage input

Description	Input Voltage	Item No.			Item No.
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	5V DC	RUG-SSR - 5VDC - L - MO - 0.1A			
	12V DC	RUG-SSR - 12VDC - L - MO - 0.1A			
	24V DC	RUG-SSR - 24VDC - L - MO - 0.1A			
	48V DC	RUG-SSR - 48VDC - L - MO - 0.1A RUG-SSR -60VDC - L - MO - 0.1A			
	60V DC				
Schematic ¹⁾					
					
Input parameters					
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N		0...2V DC <10mA	0...4V DC <12mA	0...12V DC <11mA	0...12V DC <5mA 0...12V DC <6mA
Output parameters					
Output (load) voltage range		12...30V AC / 12...48V DC			12...30V AC / 12...48V DC
Maximum continuous current		0.1A			0.1A
Output leakage current (OFF state)		≤1μA			≤1μA
output voltage drop		≤5V			≤5V
On-delay at U _N		≤5ms			≤5ms
Turn-off delay at U _N		≤5ms			≤5ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)
Surge immunity		2KV			2KV
Group pulse immunity		4KV			4KV
Electrostatic discharge immunity		8KV			8KV
Specification					
Working temperature		-25℃...+70℃			-25℃...+70℃
stored temperature		-40℃...+85℃			-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation
pollution level		3			3
Overvoltage category		III			III
Protection type		IP20			IP20
Insulation material type		Nylon			Nylon
color		Grey			Grey
Flammability rating		V0 (UL94)			V0 (UL94)
compliance		CE			CE
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals
Stripping length	mm	9...10			9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay



RUG-SSR...DC...0.1A

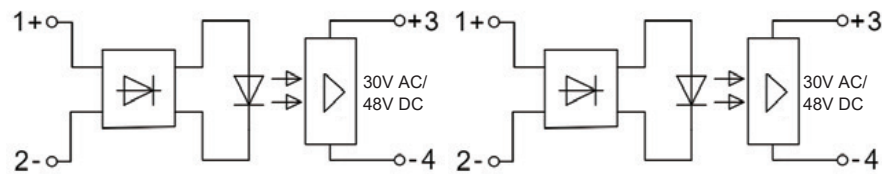
DC voltage input

RUG-SSR...AC...0.1A

AC voltage input

Description	Input Voltage	Item No.	Item No.
RUG-SSR series	110V DC	RUG-SSR - 110VDC - L - MO - 0.1A	
Solid state relay RUG-SSR	220V DC	RUG-SSR - 220VDC - L - MO - 0.1A	
Can be mounted on DIN35 rail	24V AC		RUG-SSR - 24VAC - L - MO - 0.1A

Schematic¹⁾



Input parameters			
Rated input voltage U_N	110V DC	220V DC	24V AC
Input high level range	88...132V DC	176...264V DC	19...30V AC
Typical input current at input low range U_N	0...40V DC <5mA	0...40V DC <4mA	0...12V AC <11mA

Output parameters		
Output (load) voltage range	12...30V AC / 12...48V DC	12...30V AC / 12...48V DC
Maximum continuous current	0.1A	0.1A
Output leakage current (OFF state)	≤1μA	≤1μA
output voltage drop	≤5V	≤5V
On-delay at U _N	≤5.5ms	≤10ms
Turn-off delay at U _N	≤5.5ms	≤35ms

Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV

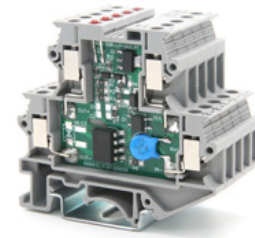
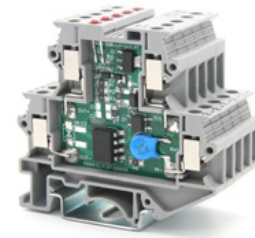
Specification		
Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	3
Overvoltage category	III	III
Protection type	IP20	IP20
Insulation material type	Nylon	Nylon
color	Grey	Grey
Flammability rating	V0 (UL94)	V0 (UL94)
compliance	CE	CE

Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10

Reference standard	IEC61810.1 / GB/T21711.1 / IEC61010-2-201/GB4793.1
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1) The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series
Solid state relay



RUG-SSR...AC-...-0.1A

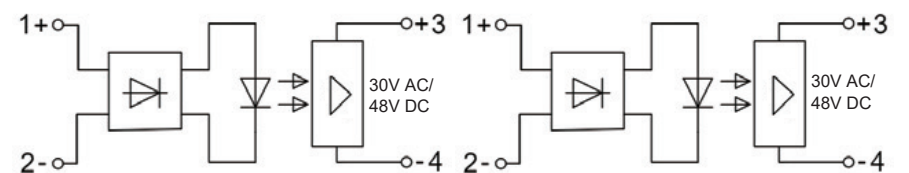
AC voltage input

RUG-SSR...AC-...-0.1A

AC voltage input

Description	Input Voltage	Item No.	Item No.
RUG-SSR series	48V AC	RUG-SSR - 48VAC - L - MO - 0.1A	
Solid state relay RUG-SSR	60V AC	RUG-SSR - 60VAC - L - MO - 0.1A	
Can be mounted on DIN35 rail	110V AC		RUG-SSR - 110VAC - L - MO - 0.1A
	220V AC		RUG-SSR - 220VAC - L - MO - 0.1A

Schematic¹⁾



Input parameters				
Rated input voltage U_N	48V AC	60V AC	110V AC	220V AC
Input high level range	38...58V AC	48...72V AC	88...132V AC	176...264V AC
Typical input current at input low range I_N	0...12V AC <5mA	0...12V AC <6mA	0...40V AC <5mA	0...40V AC <4mA

Output parameters		
Output (load) voltage range	12...30V AC / 12...48V DC	12...30V AC / 12...48V DC
Maximum continuous current	0.1A	0.1A
Output leakage current (OFF state)	≤1μA	≤1μA
output voltage drop	≤5V	≤5V
On-delay at U _N	≤10ms	≤12ms
Turn-off delay at U _N	≤45ms	≤65ms

Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV

Specification		
Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	3
Overvoltage category	III	III
Protection type	IP20	IP20
Insulation material type	Nylon	Nylon
color	Grey	Grey
Flammability rating	V0 (UL94)	V0 (UL94)
compliance	CE	CE

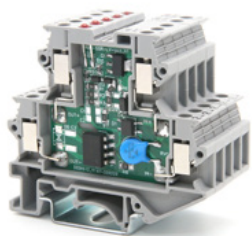
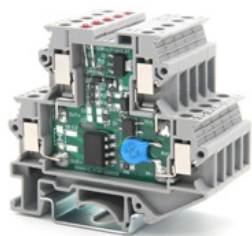
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10

Reference standard	IEC61810.1 / GB/T21711.1 / IEC61010-2-201/GB4793.1
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1) The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay



RUG-SSR...DC...xxA

DC voltage input

RUG-SSR...DC...xxA

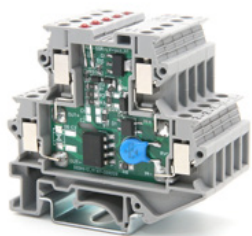
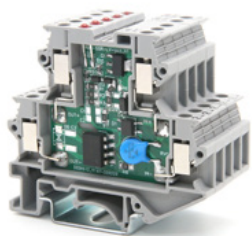
DC voltage input

Description	Input voltage	Item No.			Item No.	
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	5V DC	RUG-SSR - 5VDC - H - TZ -xxA(0.3,0.6,1A,2A optional)				
	12V DC	RUG-SSR - 12VDC - H - TZ -xxA(0.3,0.6,1A,2A optional)				
	24V DC	RUG-SSR - 24VDC - H - TZ -xxA(0.3,0.6,1A,2A optional)				
	48V DC	RUG-SSR - 48VDC - H - TZ -xxA(0.3,0.6,1A,2A optional)				
	60V DC	RUG-SSR - 60VDC - H - TZ -xxA(0.3,0.6,1A,2A optional)				
Schematic ¹⁾						
Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...2V DC <25mA	0...5V DC <22mA	0...5V DC <20mA	0...12V DC <15mA	0...12V DC <15mA
Output parameters						
Output (load) voltage range		12...300V AC			12...300V AC	
Maximum continuous current		1A			1A	
Output leakage current (OFF state)		≤1mA			≤1mA	
output voltage drop		≤2.3V			≤2.3V	
On-delay at U _N		≤10ms			≤10ms	
Turn-off delay at U _N		≤10ms			≤10ms	
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals	
Stripping length	mm	9...10			9...10	
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1				

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay

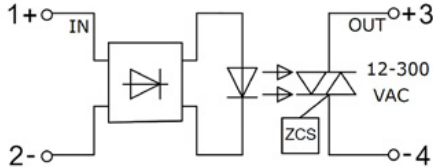
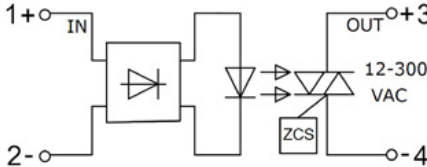


RUG-SSR...AC...xxA

AC voltage input

RUG-SSR...AC...xxA

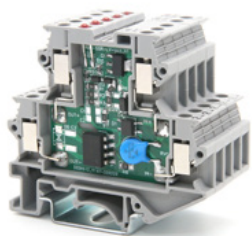
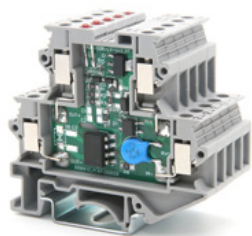
AC voltage input

Description	Input Voltage	Item No.	Item No.
RUG-SSR series	24V AC	RUG-SSR - 24VAC - H - TZ -xxA(0.3/0.6/1A/2A optional)	
Solid state relay RUG-SSR	48V AC	RUG-SSR - 48VAC - H - TZ -xxA(0.3,0.6,1A,2A optional)	
Can be mounted on DIN35 rail	60V AC	RUG-SSR - 60VAC - H - TZ -xxA(0.3,0.6,1A,2A optional)	
Schematic ¹⁾			
			
Input parameters			
Rated input voltageU _N		24V AC	48V AC 60V AC
Input high level range		19...30V AC	38...58V AC 48...72V AC
Typical input current at input low range U _N		0...5V AC <20mA	0...12V AC 0...12V AC <15mA <15mA
Output parameters			
Output (load) voltage range		12...300V AC	12...300V AC
Maximum continuous current		1A	1A
Output leakage current (OFF state)		≤1mA	≤1mA
output voltage drop		≤2.3V	≤2.3V
On-delay at U _N		≤15ms	≤15ms
Turn-off delay at U _N		≤20ms	≤20ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity		2KV	2KV
Group pulse immunity		4KV	4KV
Electrostatic discharge immunity		8KV	8KV
Specification			
Working temperature		-25℃...+70℃	-25℃...+70℃
stored temperature		-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity		5%...95% RH without condensation	5%...95% RH without condensation
pollution level		3	3
Overvoltage category		III	III
Protection type		IP20	IP20
Insulation material type		Nylon	Nylon
color		Grey	Grey
Flammability rating		V0 (UL94)	V0 (UL94)
compliance		CE	CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay



RUG-SSR...DC...xxA

DC voltage input

RUG-SSR...DC...xxA

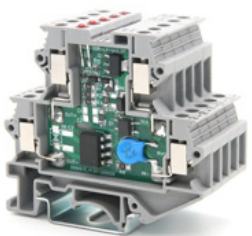
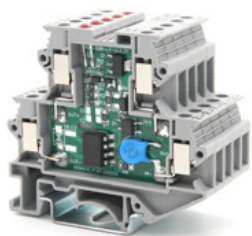
DC voltage input

Description	Input Voltage	Item No.			Item No.
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	5V DC	RUG-SSR - 5VDC - H - TR -xxA(0.3,0.6,1A optional)			RUG-SSR - 48VDC - H - TR -xxA(0.3,0.6,1A optional) RUG-SSR - 60VDC - H - TR -xxA(0.3,0.6,1A optional)
	12V DC	RUG-SSR - 12VDC - H - TR -xxA(0.3,0.6,1A optional)			
	24V DC	RUG-SSR - 24VDC - H - TR -xxA(0.3,0.6,1A optional)			
	48V DC				
	60V DC				
Schematic ¹⁾					
Input parameters					
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N		0...2V DC <25mA	0...5V DC <22mA	0...5V DC <20mA	0...12V DC <15mA 0...12V DC <15mA
Output parameters					
Output (load) voltage range		12...300V AC			12...300V AC
Maximum continuous current		1A			1A
Output leakage current (OFF state)		≤1mA			≤1mA
output voltage drop		≤2.3V			≤2.3V
On-delay at U _N		≤0.1ms			≤0.1ms
Turn-off delay at U _N		≤10ms			≤10ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)
Surge immunity		2KV			2KV
Group pulse immunity		4KV			4KV
Electrostatic discharge immunity		8KV			8KV
Specification					
Working temperature		-25℃...+70℃			-25℃...+70℃
stored temperature		-40℃...+85℃			-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm			65.8×59.3×6.2mm
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation
pollution level		3			3
Overvoltage category		III			III
Protection type		IP20			IP20
Insulation material type		Nylon			Nylon
color		Grey			Grey
Flammability rating		V0 (UL94)			V0 (UL94)
compliance		CE			CE
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals			M3 Screw Clamp Terminals
Stripping length	mm	9...10			9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-SSR series

Solid state relay



RUG-SSR...AC...xxA

AC voltage input

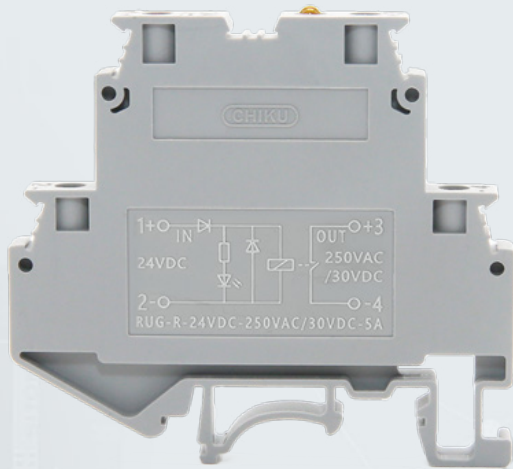
RUG-SSR...AC...xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RUG-SSR series Solid state relay RUG-SSR Can be mounted on DIN35 rail	24V AC 48V AC 60V AC	RUG-SSR - 24VAC - H - TR-xxA(0.3,0.6,1A optional)	RUG-SSR - 48VAC - H - TR -xxA(0.3,0.6,1A optional) RUG-SSR - 60VAC - H - TR -xxA(0.3,0.6,1A optional)
Schematic ¹⁾			
Input parameters			
Rated input voltageU _N	24V AC	48V AC	60V AC
Input high level range	19...30V AC	38...58V AC	48...72V AC
Typical input current at input	0...5V AC	0...12V AC	0...12V AC
low range U _N	<20mA	<15mA	<15mA
Output parameters			
Output (load) voltage range	12...300V AC	12...300V AC	
Maximum continuous current	1A	1A	
Output leakage current (OFF state)	≤1mA	≤1mA	
output voltage drop	≤2.3V	≤2.3V	
On-delay at U _N	≤15ms	≤15ms	
Turn-off delay at U _N	≤20ms	≤20ms	
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)	
Surge immunity	2KV	2KV	
Group pulse immunity	4KV	4KV	
Electrostatic discharge immunity	8KV	8KV	
Specification			
Working temperature	-25℃...+70℃	-25℃...+70℃	
stored temperature	-40℃...+85℃	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation	
pollution level	3	3	
Overvoltage category	III	III	
Protection type	IP20	IP20	
Insulation material type	Nylon	Nylon	
color	Grey	Grey	
Flammability rating	V0 (UL94)	V0 (UL94)	
compliance	CE	CE	
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals	
Stripping length	mm	9...10	
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

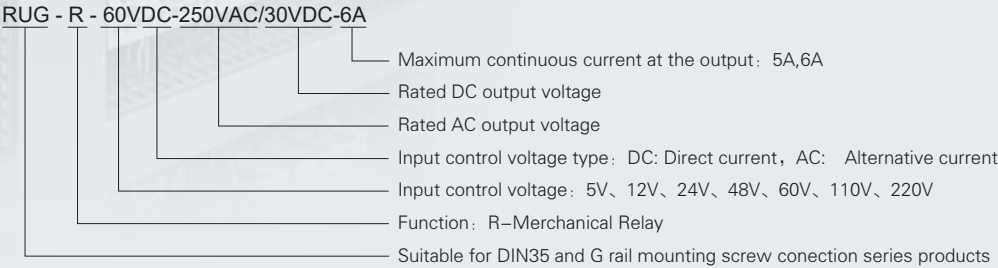
RUG-R series
Relay terminals



It is composed of a standard wiring base terminal and a small relay with wiring contacts. It is used for I/O interface of industrial control. It can be used as an output relay or to increase the number of protection and control loop contacts and expand the capacity.

- Modular products with uniform appearance, M3 screw clamp connection form
- Rich input voltage specifications (5V ... 230V AC/DC) , Widely used in various industrial control systems
- Equipped with indicator
- Built-in relay design, improve reliability
- 4KV RMS;Control and output (load) end electrical isolation, isolation voltage up to 4KV RMS
- 6.2mm standard module, saving installation space
- Standard clamped with DIN-35 and G rail

RUG-R Coding for relay built-in model function terminal



* The "width" listed in the product parameters is the size from the top to the foot of the clamp
* The end plate model of this product is "D-RUG-O-L GY", and the size of end plate is height H65.8 × width W48.5 × thickness THK1.5mm

RUG-R series
Relay terminals



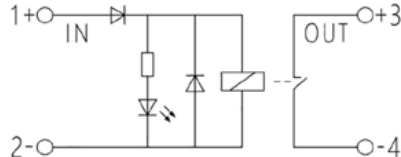
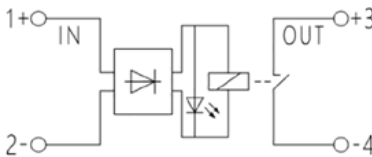
RUG-R ... DC-...-5A

DC voltage input



RUG-R ... AC/DC-...-5A

AC and DC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-R Built-in relay series	5V DC	RUG - R - 5V DC - 250VAC/30VDC - 5A	RUG - R - 24V AC/DC - 250VAC/30VDC - 5A RUG - R - 48V AC/DC - 250VAC/30VDC - 5A RUG - R - 60V AC/DC - 250VAC/30VDC - 5A
	12V DC	RUG - R - 12V DC - 250VAC/30VDC - 5A	
	24V DC	RUG - R - 24V DC - 250VAC/30VDC - 5A	
	24V AC/DC		
	48V AC/DC		
	60V AC/DC		
Schematic ¹⁾			
			
Input (control) parameters			
Rated input voltageU _N	5V DC	12V DC	24V DC
Input high level range	4.4...6.0V DC	9.6...15V DC	18...29V DC
Typical input current at input low range U _N	0...1V DC	0...2V DC	0...3V DC
	<26mA	<12mA	<10mA
Control level status display	Red light emitting diode		Red light emitting diode
Output (load) parameters			
Contact type	1 normally open contacts		1 normally open contacts
Contact material (relay)	Silver alloy		Silver alloy
Rated switching voltage	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC
Maximum continuous current (resistive)	5A	5A	5A
Maximum switching power	1250VA ,150W	1250VA ,150W	1250VA ,150W
On-delay at U _N	≤8ms	≤8ms	≤8ms
Turn-off delay at U _N	≤5ms	≤5ms	≤5ms
Mechanical life	2 × 10 ⁷	2 × 10 ⁷	2 × 10 ⁷
Electrical life	1 × 10 ⁵	5 × 10 ⁵	5 × 10 ⁵
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	3KV AC(50 Hz,1min)		3KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)		1KV AC(50 Hz,1min)
Surge immunity	2KV		2KV
Group pulse immunity	4KV		4KV
Electrostatic discharge immunity	8KV		8KV
Specification			
Working temperature	-25℃...+70℃		-25℃...+70℃
stored temperature	-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm		65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation
pollution level	3		3
Overvoltage category	III		III
Protection type	IP20		IP20
Insulation material type	Nylon		Nylon
color	Grey		Grey
Flammability rating	V0 (UL94)		V0 (UL94)
compliance	CE		CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-R series
Relay terminals

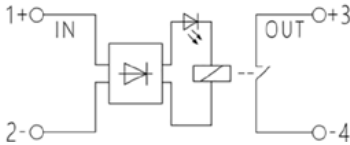


RUG-R ... AC/DC...-5A

AC and DC voltage input

Description	Input Voltage	Item NO.
RUG-R Built-in relay series	110V AC/DC	RUG - R - 110V AC/DC -250VAC/30DC -5A
	220V AC/DC	RUG - R - 220V AC/DC -250VAC/30DC -5A

Schematic ¹⁾	
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Input (control) parameters	
Rated input voltageU _N	110V AC/DC 220V AC/DC
Input high level range	88...136V AC/DC 176...264V AC/DC
Typical input current at input low range U _N	0...6V AC/DC 0...12V AC/DC <4.5mA <4.5mA
Control level status display	Red light emitting diode
Output (load) parameters	
Contact type	1 normally open contacts
Contact material (relay)	silver alloy
Rated switching voltage	250V AC/30V DC 250V AC/30V DC
Maximum continuous current (resistive)	6A 6A
Maximum switching power	1500VA ,180W 1500VA ,180W
On-delay at U _N	≤6ms ≤6ms
Turn-off delay at U _N	≤6ms ≤6ms
Mechanical life	1 × 10 ⁷ 1 × 10 ⁷
Electrical life	6× 10 ⁴ 6× 10 ⁴
Dielectric and Electromagnetic Compatibility	
Power frequency voltage between input and output	4KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)
Surge immunity	2KV
Group pulse immunity	4KV
Electrostatic discharge immunity	8KV
Specification	
Working temperature	-25℃...+70℃
stored temperature	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation
pollution level	3
Overvoltage category	III
Protection type	IP20
Insulation material type	Nylon
color	Grey
Flammability rating	V0 (UL94)
compliance	CE
Wiring Data	
Rigid/Flexible Conductors	mm ² 0.2...6.0 / 0.2...4.0
Wiring form	M3 Screw Clamp Terminals
Stripping length	mm 9...10
Reference standard	
IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

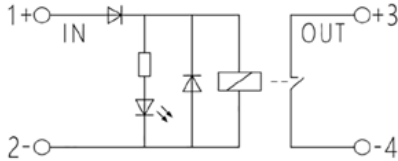
RUG-R series
Relay terminals



RUG-R ... DC-...-6A

DC voltage input

Description	Input Voltage	Item NO.
RUG-R Built-in relay series	5V DC	RUG - R - 5V DC - 250VAC/30VDC - 6A
	12V DC	RUG - R - 12V DC - 250VAC/30VDC - 6A
	24V DC	RUG - R - 24V DC - 250VAC/30VDC - 6A
	24V AC/DC	
	48V AC/DC	
	60V AC/DC	
Schematic ¹⁾		



Input (control) parameters	
Rated input voltageU _N	5V DC 12V DC 24V DC
Input high level range	4.4...6.0V DC 9.6...16V DC 19...30V DC
Typical input current at input low range U _N	0...0.7V DC 0...1.2V DC 0...2V DC <30mA <15mA <9mA
Control level status display	Red light emitting diode
Output (load) parameters	
Contact type	1 normally open contacts
Contact material (relay)	Silver alloy
Rated switching voltage	250V AC/30V DC 250V AC/30V DC 250V AC/30V DC
Maximum continuous current (resistive)	6A 6A 6A
Maximum switching power	1500VA ,180W 1500VA ,180W 1500VA ,180W
On-delay at U _N	≤6ms ≤5ms ≤6ms
Turn-off delay at U _N	≤5ms ≤6.5ms ≤6.5ms
Mechanical life	1 × 10 ⁷ 1 × 10 ⁷ 1 × 10 ⁷
Electrical life	6× 10 ⁴ 6× 10 ⁴ 6× 10 ⁴
Dielectric and Electromagnetic Compatibility	
Power frequency voltage between input and output	4KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)
Surge immunity	2KV
Group pulse immunity	4KV
Electrostatic discharge immunity	8KV
Specification	
Working temperature	-25℃...+70℃
stored temperature	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation
pollution level	3
Overvoltage category	III
Protection type	IP20
Insulation material type	Nylon
color	Grey
Flammability rating	V0 (UL94)
compliance	CE
Wiring Data	
Rigid/Flexible Conductors	mm ² 0.2...6.0 / 0.2...4.0
Wiring form	M3 Screw Clamp Terminals
Stripping length	mm 9...10
Reference standard	
IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

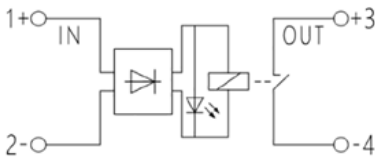
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.



RUG-R ... AC/DC-...-6A

AC and DC voltage input

Description	Input Voltage	Item NO.
RUG-R Built-in relay series	24V AC/DC	RUG - R - 24V AC/DC - 250VAC/30VDC - 6A
	48V AC/DC	RUG - R - 48V AC/DC - 250VAC/30VDC - 6A
	60V AC/DC	RUG - R - 60V AC/DC - 250VAC/30VDC - 6A
Schematic ¹⁾		



Input (control) parameters	
Rated input voltageU _N	24V AC/DC 48V AC/DC 60V AC/DC
Input high level range	18...30V AC/DC 38...60V AC/DC 48...72V AC/DC
Typical input current at input low range U _N	0...2V AC/DC 0...3V AC/DC 0...4V AC/DC <17mA <10mA <9mA
Control level status display	Red light emitting diode
Output (load) parameters	
Contact type	1 normally open contacts
Contact material (relay)	Silver alloy
Rated switching voltage	250V AC/30V DC 250V AC/30V DC 250V AC/30V DC
Maximum continuous current (resistive)	6A 6A 6A
Maximum switching power	1500VA ,180W 1500VA ,180W 1500VA ,180W
On-delay at U _N	≤6ms ≤6ms ≤6ms
Turn-off delay at U _N	≤5ms ≤6.5ms ≤6.5ms
Mechanical life	1 × 10 ⁷ 1 × 10 ⁷ 1 × 10 ⁷
Electrical life	6× 10 ⁴ 6× 10 ⁴ 6× 10 ⁴
Dielectric and Electromagnetic Compatibility	
Power frequency voltage between input and output	4KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)
Surge immunity	2KV
Group pulse immunity	4KV
Electrostatic discharge immunity	8KV
Specification	
Working temperature	-25℃...+70℃
stored temperature	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation
pollution level	3
Overvoltage category	III
Protection type	IP20
Insulation material type	Nylon
color	Grey
Flammability rating	V0 (UL94)
compliance	CE
Wiring Data	
Rigid/Flexible Conductors	mm ² 0.2...6.0 / 0.2...4.0
Wiring form	M3 Screw Clamp Terminals
Stripping length	mm 9...10
Reference standard	
IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RUG-R series
Relay terminals

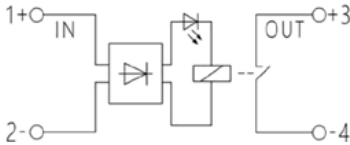


RUG-R ... AC/DC...-6A

AC and DC voltage input

Description	Input Voltage	Item NO.
RUG-R Built-in relay series	110V AC/DC	RUG - R - 110V AC/DC -250VAC/30DC -6A
	220V AC/DC	RUG - R - 220V AC/DC -250VAC/30DC -6A

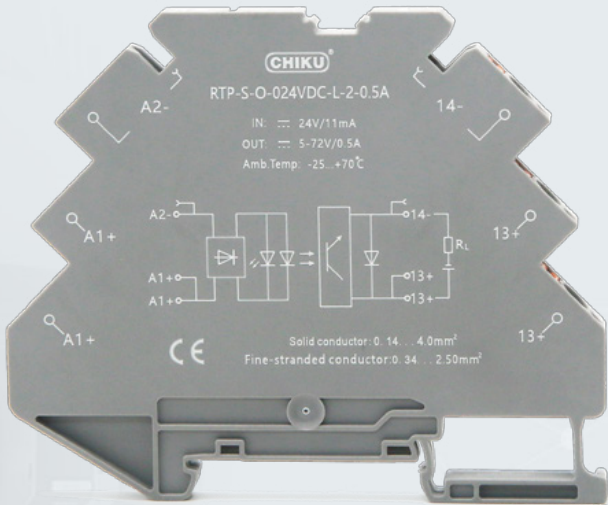
Schematic¹⁾



Input (control) parameters	
Rated input voltageU _N	110V AC/DC 220V AC/DC
Input high level range	88...136V AC/DC 176...264V AC/DC
Typical input current at input low range U _N	0...6V AC/DC 0...12V AC/DC
	<4.5mA <4.5mA
Control level status display	Red light emitting diode
Output (load) parameters	
Contact type	1 normally open contacts
Contact material (relay)	silver alloy
Rated switching voltage	250V AC/30V DC 250V AC/30V DC
Maximum continuous current (resistive)	6A 6A
Maximum switching power	1500VA ,180W 1500VA ,180W
On-delay at U _N	≤6ms ≤6ms
Turn-off delay at U _N	≤6ms ≤6ms
Mechanical life	1 × 10 ⁷ 1 × 10 ⁷
Electrical life	6× 10 ⁴ 6× 10 ⁴
Dielectric and Electromagnetic Compatibility	
Power frequency voltage between input and output	4KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)
Surge immunity	2KV
Group pulse immunity	4KV
Electrostatic discharge immunity	8KV
Specification	
Working temperature	-25℃...+70℃
stored temperature	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm
Working Environment Humidity	5%...95% RH without condensation
pollution level	3
Overvoltage category	III
Protection type	IP20
Insulation material type	Nylon
color	Grey
Flammability rating	V0 (UL94)
compliance	CE
Wiring Data	
Rigid/Flexible Conductors	mm ² 0.2...6.0 / 0.2...4.0
Wiring form	M3 Screw Clamp Terminals
Stripping length	mm 9...10
Reference standard	
IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

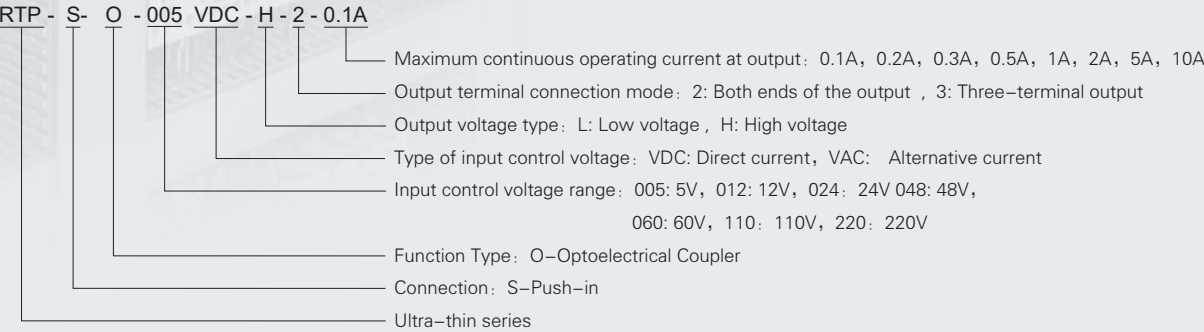
RTP-S-O series
Ultrathin optocoupler module



Composed of photoelectric couplers and peripheral electronic components, used for a variety of automatic protection and automatic control lines, as output or increase the number of protection and control loop contacts and expand capacity, with the following characteristics:

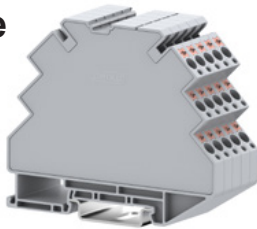
- Modular push-in technology spring terminal;
- Support PWM input control;
- Rich input voltage specifications (5V... 220VAC/DC), widely applicable to various industrial control systems;
- Equipped with indicator;
- Digital signal isolation and amplification, input and output electrical isolation;
- No mechanical contact, longer life, good reliability;
- 6.2mm standard module, saving space;
- Standard DIN-35 rail mounting.

RTP- S-O Coding for ultra-thin optocoupler module standard interface model



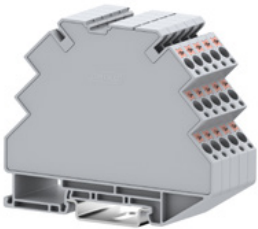
* The "width" listed in the product parameters is the size from the top to the foot of the clamp

RTP-S-O series
Ultrathin optocoupler module



RTP-S-O... VDC-L-2-xxA

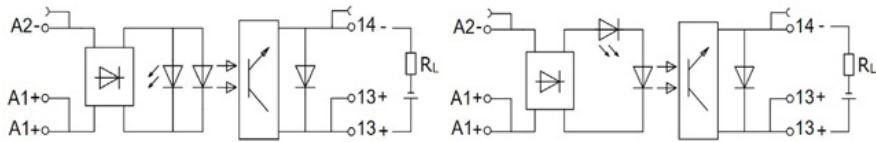
DC voltage input



RTP-S-O... VDC-L-2-xxA

DC voltage input

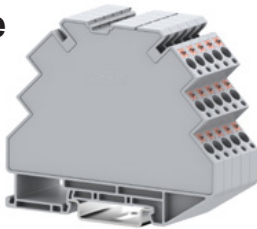
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	5V DC	RTP-S-O-005VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional)	RTP-S-O-048VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional) RTP-S-O-060VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional)
	12V DC	RTP-S-O-012VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional)	
	24V DC	RTP-S-O-024VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional)	
	48V DC		
	60V DC		
Schematic ¹⁾			



Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC <5mA	0...12V DC <6mA
Output parameters						
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC	5...72V DC
Maximum continuous current		500mA	500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤10μA	≤10μA	≤10μA	≤10μA	≤10μA
output voltage drop		≤1V	≤1V	≤1V	≤1V	≤1V
On-delay at U _N		≤6μs	≤6μs	≤6μs	≤8μs	≤8us
Turn-off delay at U _N		≤90μs	≤90μs	≤90μs	≤70μs	≤70μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)			3.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block			Push-in spring terminal block	
Stripping length	mm	9...10			9...10	
Reference standard		IEC60947-5-1 GB/T14048.5				

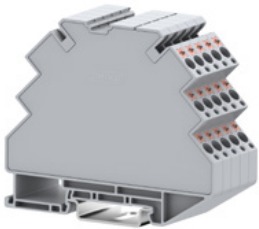
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module



RTP-S-O... VDC-L-2-xxA

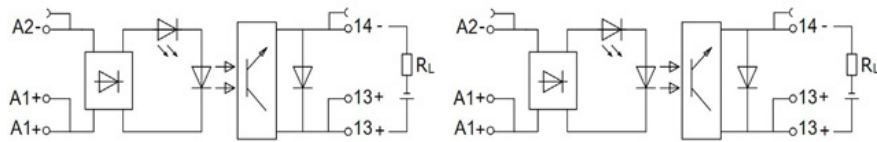
DC voltage input



RTP-S-O... VAC-L-2-xxA

AC voltage input

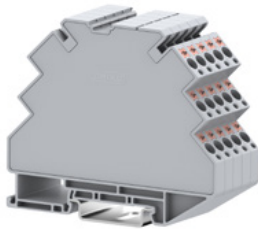
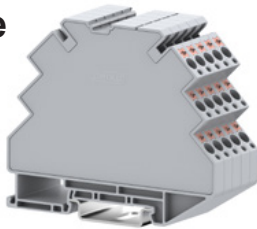
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110VDC	RTP-S-O-110VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional)	RTP-S-O-48VAC-L-2-xxA(0.1,0.2,0.3,0.5A optional) RTP-S-O-60VAC-L-2-xxA(0.1,0.2,0.3,0.5A optional)
	220VDC	RTP-S-O-220VDC-L-2-xxA(0.1,0.2,0.3,0.5A optional)	
	48VAC		
	60VAC		
Schematic ¹⁾			



Input parameters					
Rated input voltageU _N		110VDC	220VDC	48V AC	60V AC
Input high level range		88...132V DC	176...264V DC	38...58V AC	48...72V AC
Typical input current at input low range U _N		0...40V DC < 4.5mA	0...40V DC < 4mA	0...12V AC < 5mA	0...12V AC < 6mA
Output parameters					
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC
Maximum continuous current		500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤10μA	≤10μA	≤10μA	≤10μA
output voltage drop		≤1V	≤1V	≤1V	≤1V
On-delay at U _N		≤10μs	≤12μs	≤10ms	≤10ms
Turn-off delay at U _N		≤70μs	≤70μs	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)		3.5KV AC(50 Hz,1min)	
Surge immunity		2KV		2KV	
Group pulse immunity		4KV		4KV	
Electrostatic discharge immunity		8KV		8KV	
Specification					
Working temperature		-25℃...+70℃		-25℃...+70℃	
stored temperature		-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm		87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation	
pollution level		3		3	
Overvoltage category		III		III	
Protection type		IP20		IP20	
Insulation material type		Nylon		Nylon	
color		Grey		Grey	
Flammability rating		V0 (UL94)		V0 (UL94)	
compliance		CE		CE	
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5		0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block		Push-in spring terminal block	
Stripping length	mm	9...10		9...10	
Reference standard		IEC60947-5-1 GB/T14048.5			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module



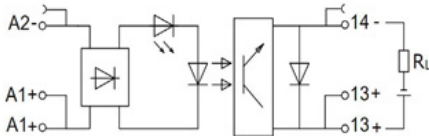
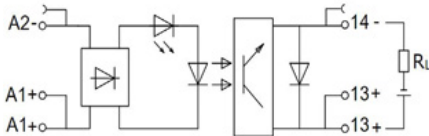
RTP-S-O-... VAC-L-2-xxA

AC voltage input

RTP-S-O-... VAC-L-2-xxA

AC voltage input

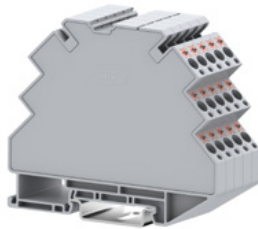
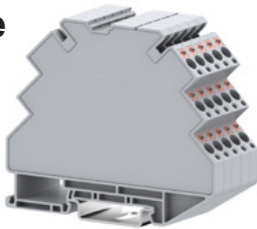
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110V AC	RTP-S-O-110VAC-L-2-xxA(0.1,0.2,0.3,0.5A optional)	RTP-S-O-220VAC-L-2-xxA(0.1,0.2,0.3,0.5A optional)
	220V AC		
Schematic ¹⁾			



Input parameters			
Rated input voltageU _N		110V AC	220V AC
Input high level range		88...132V AC	176...264V AC
Typical input current at input low range U _N		0...40V AC <5mA	0...40V AC <4mA
Output parameters			
Output (load) voltage range		5...72V DC	5...72V DC
Maximum continuous current		500mA	500mA
Output leakage current (OFF state)		≤10μA	≤10μA
output voltage drop		≤1V	≤1V
On-delay at U _N		≤15ms	≤15ms
Turn-off delay at U _N		≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)	3.5KV AC(50 Hz,1min)
Surge immunity		2KV	2KV
Group pulse immunity		4KV	4KV
Electrostatic discharge immunity		8KV	8KV
Specification			
Working temperature		-25℃...+70℃	-25℃...+70℃
stored temperature		-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm	87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation	5%...95% RH without condensation
pollution level		3	3
Overvoltage category		III	III
Protection type		IP20	IP20
Insulation material type		Nylon	Nylon
color		Grey	Grey
Flammability rating		V0 (UL94)	V0 (UL94)
compliance		CE	CE
Wiring Data			
Rigid/Flexible Conductors		mm ²	
Wiring form		Push-in spring terminal block	Push-in spring terminal block
Stripping length		mm	
Reference standard		IEC60947-5-1	GB/T14048.5

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(three output)



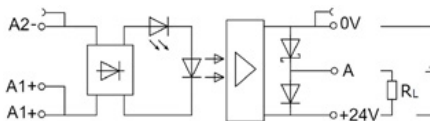
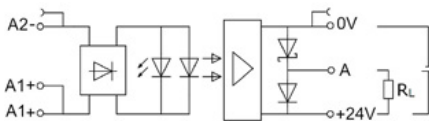
RTP-S-O-... VDC-L-3-xxA

DC voltage input

RTP-S-O-... VDC-L-3-xxA

DC voltage input

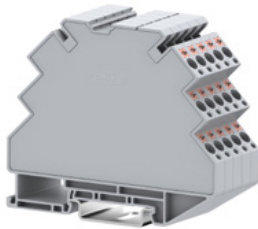
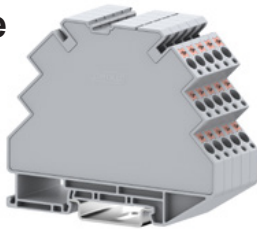
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	5V DC	RTP-S-O-005VDC-L-3-xxA(0.5,1,2,5,10A optional)	RTP-S-O-012VDC-L-3-xxA(0.5,1,2,5,10A optional)
	12V DC		
	24V DC		
	48V DC		
	60V DC	RTP-S-O-024VDC-L-3-xxA(0.5,1,2,5,10A optional)	
Schematic ¹⁾			



Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC <5mA	0...12V DC <6mA
Output parameters						
Output (load) voltage range		10...30V DC	10...30V DC	10...30V DC	10...30V DC	10...30V DC
Maximum continuous current		5A	5A	5A	5A	5A
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop		≤0.2V	≤0.2V	≤0.2V	≤0.2V	≤0.2V
On-delay at U _N		≤14μs	≤14μs	≤14μs	≤20μs	≤20μs
Turn-off delay at U _N		≤110μs	≤110μs	≤110μs	≤100μs	≤100μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors		mm ²				
Wiring form		Push-in spring terminal block				
Stripping length		mm				
Reference standard		IEC60947-5-1	GB/T14048.5			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(three output)



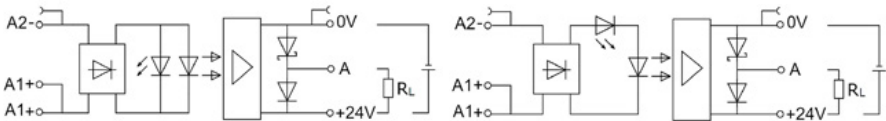
RTP-S-O- ... VDC-L-3-xxA

DC voltage input

RTP-S-O-... VAC-L-3-xxA

AC voltage input

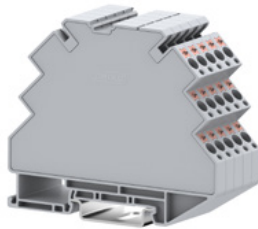
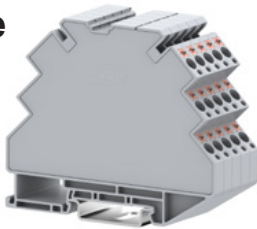
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110VDC	RTP-S-O-110VDC-L-3-xxA(0.5,1,2,5,10A optional)	RTP-S-O-48VAC-L-3-xxA(0.5,1,2,5,10A optional) RTP-S-O-60VAC-L-3-xxA(0.5,1,2,5,10A optional)
	220VDC	RTP-S-O-220VDC-L-3-xxA(0.5,1,2,5,10A optional)	
	48VAC		
	60VAC		
Schematic ¹⁾			



Input parameters				
Rated input voltageUN	110VDC	220VDC	48V AC	60V AC
Input high level range	88...132V DC	176...264V DC	38...58V AC	48...72V AC
Typical input current at input low range UN	0...40V DC < 4.5mA	0...40V DC < 4mA	0...12V AC <5mA	0...12V AC <5.2mA
Output parameters				
Output (load) voltage range	10...30V DC	10...30V DC	10...30V DC	10...30V DC
Maximum continuous current	5A	5A	5A	5A
Output leakage current (OFF state)	≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop	≤0.2V	≤0.2V	≤0.2V	≤0.2V
On-delay at UN	≤22μs	≤30μs	≤12ms	≤12ms
Turn-off delay at UN	≤90μs	≤90μs	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility				
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)	
Surge immunity	2KV		2KV	
Group pulse immunity	4KV		4KV	
Electrostatic discharge immunity	8KV		8KV	
Specification				
Working temperature	-25℃...+70℃		-25℃...+70℃	
stored temperature	-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm		87.2×72×6.2mm	
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation	
pollution level	3		3	
Overvoltage category	III		III	
Protection type	IP20		IP20	
Insulation material type	Nylon		Nylon	
color	Grey		Grey	
Flammability rating	V0 (UL94)		V0 (UL94)	
compliance	CE		CE	
Wiring Data				
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5	0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block	Push-in spring terminal block	
Stripping length	mm	9...10	9...10	
Reference standard				
	IEC60947-5-1 GB/T14048.5			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(three output)



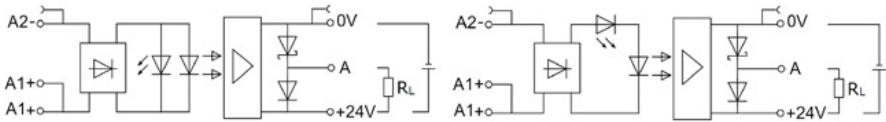
RTP-S-O-...VAC-L-3-xxA

AC voltage input

RTP-S-O-...VAC-L-3-xxA

AC voltage input

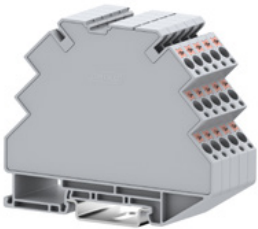
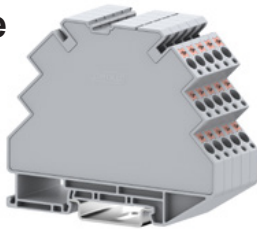
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110VAC	RTP-S-O-110VAC-L-3-xxA(0.5,1,2,5,10A optional)	RTP-S-O-220VAC-L-3-xxA(0.5,1,2,5,10A optional)
	220VAC		
Schematic ¹⁾			



Input parameters		
Rated input voltageUN	110V AC	220V AC
Input high level range	88...132V DC	176...264V AC
Typical input current at input low range UN	0...40V AC < 5mA	0...40V AC <4mA
Output parameters		
Output (load) voltage range	10...30V DC	10...30V DC
Maximum continuous current	5A	5A
Output leakage current (OFF state)	≤1μA	≤1μA
output voltage drop	≤0.2V	≤0.2V
On-delay at UN	≤15ms	≤15ms
Turn-off delay at UN	≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	
Surge immunity	2KV	
Group pulse immunity	4KV	
Electrostatic discharge immunity	8KV	
Specification		
Working temperature	-25℃...+70℃	
stored temperature	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	
pollution level	3	
Overvoltage category	III	
Protection type	IP20	
Insulation material type	Nylon	
color	Grey	
Flammability rating	V0 (UL94)	
compliance	CE	
Wiring Data		
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block
Stripping length	mm	9...10
Reference standard		
	IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(two output)



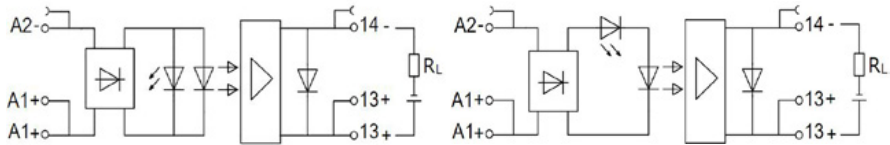
RTP-S-O- ... VDC-L-2-xxA

DC voltage input

RTP-S-O- ... VDC-L-2-xxA

DC voltage input

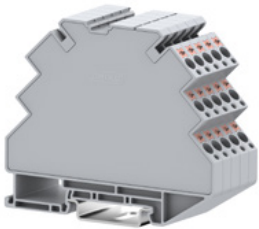
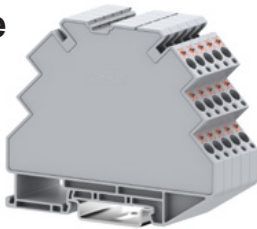
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	5V DC	RTP-S-O-005V DC-L-2-xxA(1,2,5,10A optional)	
	12V DC	RTP-S-O-012V DC-L-2-xxA(1,2,5,10A optional)	
	24V DC	RTP-S-O-024V DC-L-2-xxA(1,2,5,10A optional)	
	48V DC		RTP-S-O-48V DC-L-2-xxA(1,2,5,10A optional)
	60V DC		RTP-S-O-60V DC-L-2-xxA(1,2,5,10A optional)
Schematic ¹⁾			



Input parameters					
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC <5mA <6mA
Output parameters					
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC 5...72V DC
Maximum continuous current		5A	5A	5A	5A 5A
Output leakage current (OFF state)		≤1uA	≤1uA	≤1uA	≤1uA ≤1uA
output voltage drop		≤0.2V	≤0.2V	≤0.2V	≤0.2V ≤0.2V
On-delay at U _N		≤14us	≤14us	≤14us	≤20us ≤20us
Turn-off delay at U _N		≤110us	≤110us	≤110us	≤80us ≤80us
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)
Surge immunity		2KV			2KV
Group pulse immunity		4KV			4KV
Electrostatic discharge immunity		8KV			8KV
Specification					
Working temperature		-25℃...+70℃			-25℃...+70℃
stored temperature		-40℃...+85℃			-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation
pollution level		3			3
Overvoltage category		III			III
Protection type		IP20			IP20
Insulation material type		Nylon			Nylon
color		Grey			Grey
Flammability rating		V0 (UL94)			V0 (UL94)
compliance		CE			CE
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block			Push-in spring terminal block
Stripping length	mm	9...10			9...10
Reference standard		IEC60947-5-1 GB/T14048.5			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(two output)



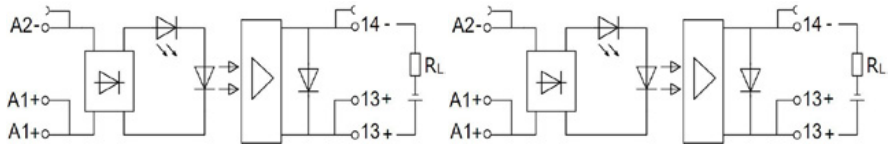
RTP-S-O-... VDC-L-2-xxA

DC voltage input

RTP-S-O-... VAC-L-2-xxA

AC voltage input

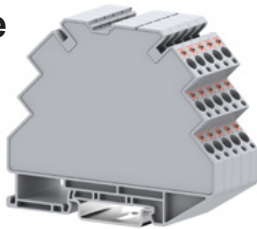
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110VDC	RTP-S-O-110V DC- L-2-xxA(1,2,5,10A optional)	
	220VDC	RTP-S-O-220V DC- L-2-xxA(1,2,5,10A optional)	
	48VAC		RTP-S-O-48V AC-L-2-xxA(1,2,5,10A optional)
	60VAC		RTP-S-O-60V AC-L-2-xxA(1,2,5,10A optional)
Schematic ¹⁾			



Input parameters					
Rated input voltageU _N		110VDC	220VDC	48V AC	60V AC
Input high level range		88...132V DC	176...264V DC	38...58V AC	48...72V AC
Typical input current at input low range U _N		0...40V DC < 5mA	0...40V DC < 4mA	0...12V AC <5mA	0...12V AC <6mA
Output parameters					
Output (load) voltage range		5...72V DC	5...72V DC	5...72V DC	5...72V DC
Maximum continuous current		5A	5A	5A	5A
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop		≤0.2V	≤0.2V	≤0.2V	≤0.2V
On-delay at U _N		≤22μs	≤30μs	≤12ms	≤12ms
Turn-off delay at U _N		≤80μs	≤80μs	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)
Surge immunity		2KV			2KV
Group pulse immunity		4KV			4KV
Electrostatic discharge immunity		8KV			8KV
Specification					
Working temperature		-25℃...+70℃			-25℃...+70℃
stored temperature		-40℃...+85℃			-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation
pollution level		3			3
Overvoltage category		III			III
Protection type		IP20			IP20
Insulation material type		Nylon			Nylon
color		Grey			Grey
Flammability rating		V0 (UL94)			V0 (UL94)
compliance		CE			CE
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block			Push-in spring terminal block
Stripping length	mm	9...10			9...10
Reference standard		IEC60947-5-1 GB/T14048.5			

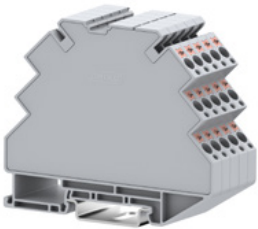
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(two output)



RTP-S-O-...VAC-L-2-xxA

AC voltage input

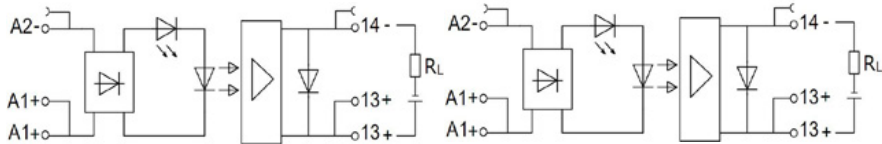


RTP-S-O-...VAC-L-2-xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110V AC	RTP-S-O-110VAC-L-2-xxA(1,2,5,10A optional)	RTP-S-O-220VAC-L-2-xxA(1,2,5,10A optional)
	220V AC		

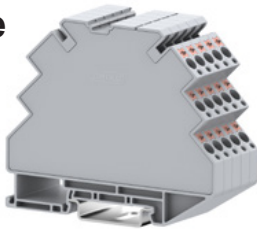
Schematic ¹⁾		
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Input parameters		
Rated input voltageU _N	110V AC	220V AC
Input high level range	88...132V DC	176...264V AC
Typical input current at input low range U _N	0...40V AC < 5mA	0...40V AC < 4mA
Output parameters		
Output (load) voltage range	5...72V DC	5...72V DC
Maximum continuous current	5A	5A
Output leakage current (OFF state)	≤1μA	≤1μA
output voltage drop	≤0.2V	≤0.2V
On-delay at U _N	≤15ms	≤15ms
Turn-off delay at U _N	≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV
Specification		
Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm	87.2×72×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	3
Overvoltage category	III	III
Protection type	IP20	IP20
Insulation material type	Nylon	Nylon
color	Grey	Grey
Flammability rating	V0 (UL94)	V0 (UL94)
compliance	CE	CE
Wiring Data		
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block
Stripping length	mm	9...10
Reference standard		
IEC60947-5-1 GB/T14048.5		

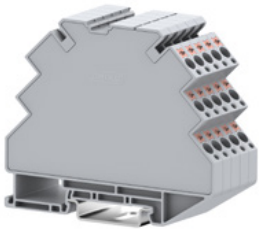
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module



RTP-S-O- ...VDC-H-2-xxA

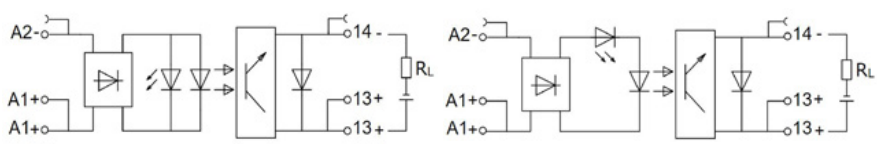
DC voltage input



RTP-S-O-... VDC-H-2-xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	5V DC	RTP-S-O-005V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional) RTP-S-O-012V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional) RTP-S-O-024V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional)	RTP-S-O-48V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional) RTP-S-O-60V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional)
	12V DC		
	24V DC		
	48V DC		
	60V DC		
Schematic ¹⁾			



Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...0.7V DC < 10mA	0...4V DC < 12mA	0...12V DC < 11mA	0...12V DC <5mA	0...12V DC <6mA
Output parameters						
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		500mA	500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤20μA	≤20μA	≤20μA	≤20μA	≤20μA
output voltage drop		≤1.6V	≤1.6V	≤1.6V	≤1.6V	≤1.6V
On-delay at U _N		≤10μs	≤10μs	≤10μs	≤12μs	≤12μs
Turn-off delay at U _N		≤800μs	≤800μs	≤800μs	≤700μs	≤700μs
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)			3.5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block			Push-in spring terminal block	
Stripping length	mm	9...10			9...10	
Reference standard		IEC60947-5-1 GB/T14048.5				

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series

Ultrathin optocoupler module

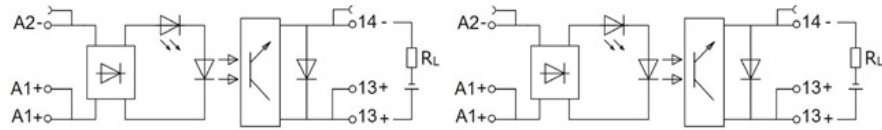


RTP-S-O-... VAC-H-2-xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110VDC	RTP-S-O-110V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional)	
	220VDC	RTP-S-O-220V DC-H-2-xxA(0.1,0.2,0.3,0.5A optional)	
	48VAC		RTP-S-O-48V AC-H-2-xxA(0.1,0.2,0.3,0.5A optional)
	60VAC		RTP-S-O-60V AC-H-2-xxA(0.1,0.2,0.3,0.5A optional)

Schematic¹⁾



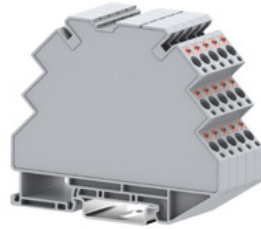
Input parameters					
Rated input voltageU _N		110VDC	220VDC	48V AC	60V AC
Input high level range		88...132V DC	176...264V DC	38...58V AC	48...72V AC
Typical input current at input low range U _N		0...40V DC	0...40V DC	0...12V AC	0...12V AC
		< 5mA	< 4mA	<5mA	<6mA
Output parameters					
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		500mA	500mA	500mA	500mA
Output leakage current (OFF state)		≤20μA	≤20μA	≤20μA	≤20μA
output voltage drop		≤1.6V	≤1.6V	≤1.6V	≤1.6V
On-delay at U _N		≤14μs	≤16μs	≤10ms	≤10ms
Turn-off delay at U _N		≤650us	≤650us	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)		2.5KV AC(50 Hz,1min)	
Surge immunity		2KV		2KV	
Group pulse immunity		4KV		4KV	
Electrostatic discharge immunity		8KV		8KV	
Specification					
Working temperature		-25℃...+70℃		-25℃...+70℃	
stored temperature		-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm		87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation	
pollution level		3		3	
Overvoltage category		III		III	
Protection type		IP20		IP20	
Insulation material type		Nylon		Nylon	
color		Grey		Grey	
Flammability rating		V0 (UL94)		V0 (UL94)	
compliance		CE		CE	
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5		0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block		Push-in spring terminal block	
Stripping length	mm	9...10		9...10	
Reference standard		IEC60947-5-1 GB/T14048.5			

1) The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series

Ultrathin optocoupler module

(two output)

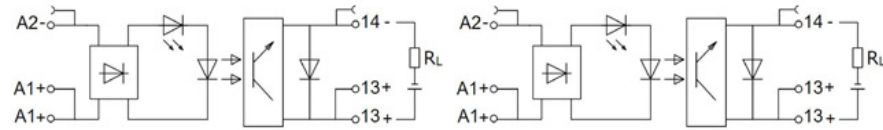


RTP-S-O-... VAC-H-2-xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110V AC 220V AC	RTP-S-O-110V AC-H-2-xxA(0.1,0.2,0.3,0.5A optional)	RTP-S-O-220V AC-H-2-xxA(0.1,0.2,0.3,0.5A optional)

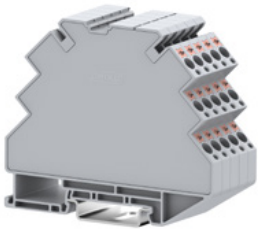
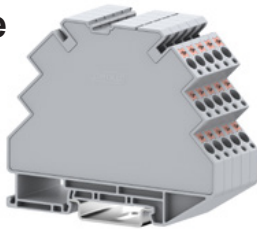
Schematic¹⁾



Input parameters		
Rated input voltageU _N	110V AC	220V AC
Input high level range	88...132V AC	176...264V AC
Typical input current at input low range U _N	0...40V AC <5mA	0...40V AC <4mA
Output parameters		
Output (load) voltage range	80...280V DC	80...280V DC
Maximum continuous current	500mA	500mA
Output leakage current (OFF state)	≤20μA	≤20μA
output voltage drop	≤1.6V	≤1.6V
On-delay at U _N	≤15ms	≤15ms
Turn-off delay at U _N	≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	2.5KV AC(50 Hz,1min)	2.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV
Specification		
Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm	87.2×72×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	3
Overvoltage category	III	III
Protection type	IP20	IP20
Insulation material type	Nylon	Nylon
color	Grey	Grey
Flammability rating	V0 (UL94)	V0 (UL94)
compliance	CE	CE
Wiring Data		
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block
Stripping length	mm	9...10
Reference standard		IEC60947-5-1 GB/T14048.5

1) The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(two output)



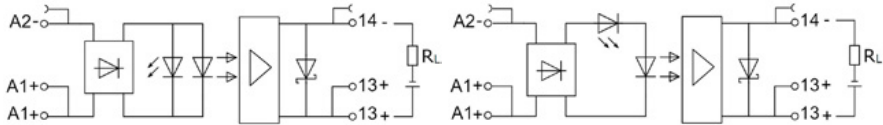
RTP-S-O- ... VDC-H-2-xxA

DC voltage input

RTP-S-O- ... VDC-H-2-xxA

DC voltage input

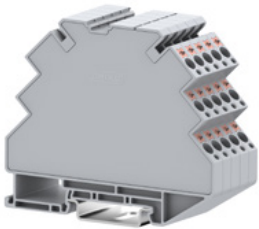
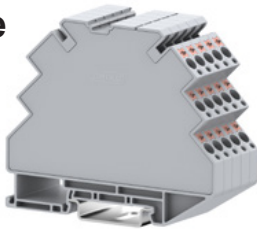
Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	5V DC	RTP-S-O-005V DC-H-2-xxA(1, 2A optional)	
	12V DC	RTP-S-O-012V DC-H-2-xxA(1, 2A optional)	
	24V DC	RTP-S-O-024V DC-H-2-xxA(1, 2A optional)	
	48V DC		RTP-S-O-48V DC-H-2-xxA(1, 2A optional)
	60V DC		RTP-S-O-60V DC-H-2-xxA(1, 2A optional)
Schematic ¹⁾			



Input parameters					
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N		0...0.7V DC< 9mA	0...4V DC< 9mA	0...12V DC< 10mA	0...12V DC<5mA <5.5mA
Output parameters					
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC 80...280V DC
Maximum continuous current		2A	2A	2A	2A 2A
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA ≤1μA
output voltage drop		≤0.4V	≤0.4V	≤0.4V	≤0.4V ≤0.4V
On-delay at U _N		≤10μs	≤11μs	≤11μs	≤14μs ≤14μs
Turn-off delay at U _N		≤170μs	≤150μs	≤150μs	≤130μs ≤130μs
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)
Surge immunity		2KV			2KV
Group pulse immunity		4KV			4KV
Electrostatic discharge immunity		8KV			8KV
Specification					
Working temperature		-25℃...+70℃			-25℃...+70℃
stored temperature		-40℃...+85℃			-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation
pollution level		3			3
Overvoltage category		III			III
Protection type		IP20			IP20
Insulation material type		Nylon			Nylon
color		Grey			Grey
Flammability rating		V0 (UL94)			V0 (UL94)
compliance		CE			CE
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block			Push-in spring terminal block
Stripping length	mm	9...10			9...10
Reference standard		IEC60947-5-1 GB/T14048.5			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(two output)



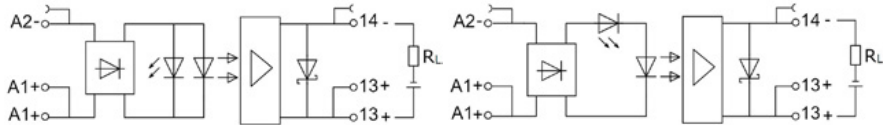
RTP-S-O- ... VDC-H-2-xxA

DC voltage input

RTP-S-O-... VAC-H-2-xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110VDC	RTP-S-O-110V DC-H-2-xxA(1, 2A optional)	
	220VDC	RTP-S-O-220V DC-H-2-xxA(1, 2A optional)	
	48VAC		RTP-S-O-48V AC-H-2-xxA(1, 2A optional)
	60VAC		RTP-S-O-060V AC-H-2-xxA(1, 2A optional)
Schematic ¹⁾			



Input parameters					
Rated input voltageU _N		110VDC	220VDC	48V AC	60V AC
Input high level range		88...132V DC	176...264V DC	38...58V AC	48...72V AC
Typical input current at input low range U _N		0...40V DC< 4.5mA	0...40V DC< 4mA	0...12V AC<5mA	0...12V AC<5.5mA
Output parameters					
Output (load) voltage range		80...280V DC	80...280V DC	80...280V DC	80...280V DC
Maximum continuous current		2A	2A	2A	2A
Output leakage current (OFF state)		≤1μA	≤1μA	≤1μA	≤1μA
output voltage drop		≤0.4V	≤0.4V	≤0.4V	≤0.4V
On-delay at U _N		≤14μs	≤17μs	≤12ms	≤12ms
Turn-off delay at U _N		≤130μs	≤110μs	≤40ms	≤40ms
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		2.5KV AC(50 Hz,1min)			2.5KV AC(50 Hz,1min)
Surge immunity		2KV			2KV
Group pulse immunity		4KV			4KV
Electrostatic discharge immunity		8KV			8KV
Specification					
Working temperature		-25℃...+70℃			-25℃...+70℃
stored temperature		-40℃...+85℃			-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation
pollution level		3			3
Overvoltage category		III			III
Protection type		IP20			IP20
Insulation material type		Nylon			Nylon
color		Grey			Grey
Flammability rating		V0 (UL94)			V0 (UL94)
compliance		CE			CE
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block			Push-in spring terminal block
Stripping length	mm	9...10			9...10
Reference standard		IEC60947-5-1 GB/T14048.5			

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-O series
Ultrathin optocoupler module
(two output)

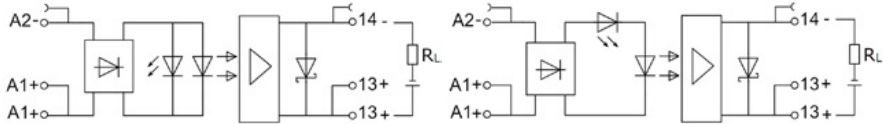


RTP-S-O-... VAC-H-2-xxA RTP-S-O-... VAC-H-2-xxA

AC voltage input

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-O Ultra-thin optocoupler series, Can be mounted on DIN35 rail	110V AC 220V AC	RTP-S-O-110V AC-H-2-xxA(1,2A optional)	RTP-S-O-220V AC-H-2-xxA(1,2A optional)
Schematic ¹⁾			



Input parameters		
Rated input voltageUN	110V AC	220V AC
Input high level range	88...132V AC	176...264V AC
Typical input current at input low range UN	0...40V AC < 4.5mA	0...40V AC <4mA
Output parameters		
Output (load) voltage range	80...280V DC	80...280V DC
Maximum continuous current	2A	2A
Output leakage current (OFF state)	≤1uA	≤1uA
output voltage drop	≤0.4V	≤0.4V
On-delay at UN	≤15ms	≤15ms
Turn-off delay at UN	≤60ms	≤60ms
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	3.5KV AC(50 Hz,1min)	3.5KV AC(50 Hz,1min)
Surge immunity	2KV	2KV
Group pulse immunity	4KV	4KV
Electrostatic discharge immunity	8KV	8KV
Specification		
Working temperature	-25℃...+70℃	-25℃...+70℃
stored temperature	-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm	87.2×72×6.2mm
Working Environment Humidity	5%...95% RH without condensation	5%...95% RH without condensation
pollution level	3	III
Overvoltage category	III	IP20
Protection type	IP20	Nylon
Insulation material type	Nylon	Grey
color	Grey	V0 (UL94)
Flammability rating	V0 (UL94)	CE
compliance	CE	
Wiring Data		
Rigid/Flexible Conductors	mm ²	
Wiring form	Push-in spring terminal block	Push-in spring terminal block
Stripping length	mm	
	IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

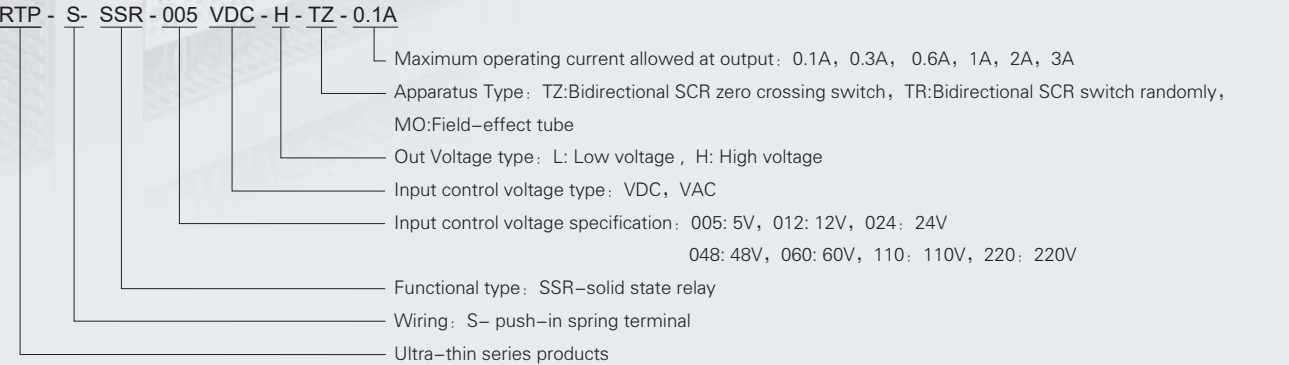
RTP-S-SSR series
Ultrathin solid state relay module



It is composed of a standard base terminal and solid state relay without mechanical contact and control circuit, used for isolation and amplification of AC and DC signals, suitable for various protection and automatic control systems, with the following characteristics:

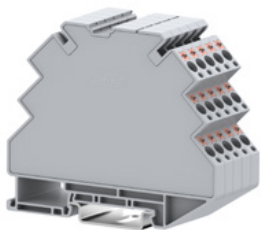
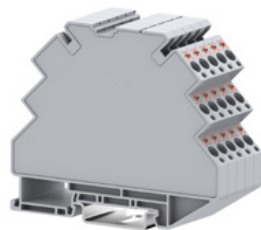
- Modular plug – in technology spring terminals with uniform appearance ;
- It is isolated between input and output. Isolated voltage up to3.5KV or 5KV RMS
- 6.2mm wide, saving space;
- Marker strip : ZB 6;
- Bridge : FBS 10–6
- Suitable for standard DIN–35 rail mounting.

RTP –S– SSR Coding for Ultra–thin solid state relay function terminal

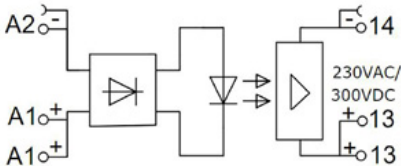


* The "width" is the size from the top to the foot of the clamp

RTP-S-SSR series
Ultrathin solid state relay module

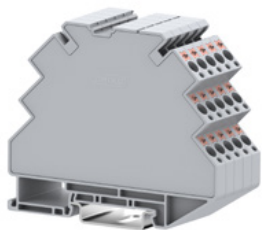
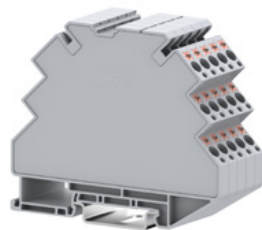


RTP-S-SSR ... DC-...0.1A RTP-S-SSR ... DC-...0.1A

DC voltage input		DC voltage input	
Description	Input Voltage	Item No.	Item No.
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	5V DC	RTP -S- SSR - 005VDC - H - MO - 0.1A	
	12V DC	RTP -S- SSR - 012VDC - H - MO - 0.1A	
	24V DC	RTP -S- SSR - 024VDC - H - MO - 0.1A	
	48V DC		RTP -S- SSR - 048VDC - H - MO - 0.1A
	60V DC		RTP -S- SSR - 060VDC - H - MO - 0.1A
	110V DC		
220V DC			
Schematic ¹⁾			
Input parameters			
Rated input voltageU _N	5V DC	12V DC	24V DC
Input high level range	4...6V DC	9.6...15V DC	19...30V DC
Typical input current at input	0...2V DC	0...4V DC	0...12V DC
low range U _N	<10mA	<12mA	<11mA
Output parameters			
Output (load) voltage range	30...230V AC / 48...300V DC		30...230V AC / 48...300V DC
Maximum continuous current	0.1A		0.1A
Output leakage current (OFF state)	≤1μA		≤1μA
output voltage drop	≤5.5V		≤5.5V
On-delay at U _N	≤1ms		≤1ms
Turn-off delay at U _N	≤0.5ms		≤0.5ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	3.5KV AC(50 Hz,1min)		3.5KV AC(50 Hz,1min)
Surge immunity	2KV		2KV
Group pulse immunity	4KV		4KV
Electrostatic discharge immunity	8KV		8KV
Specification			
Working temperature	-25℃...+70℃		-25℃...+70℃
stored temperature	-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm		87.2×72×6.2mm
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation
pollution level	3		3
Overvoltage category	III		III
Protection type	IP20		IP20
Insulation material type	Nylon		Nylon
color	Grey		Grey
Flammability rating	V0 (UL94)		V0 (UL94)
compliance	CE		CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block	
Stripping length	mm	9...10	
Reference standard		IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module

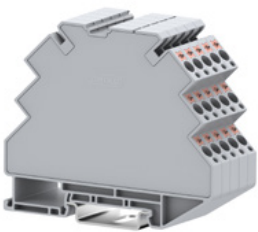
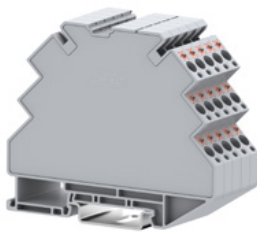


RTP-S-SSR ... DC...0.1A RTP-S-SSR ... AC...0.1A

DC voltage input		AC voltage input	
Description	Input Voltage	Item No.	Item No.
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	110V DC	RTP -S- SSR - 110VDC - H - MO - 0.1A	
	220V DC	RTP -S- SSR - 220VDC - H - MO - 0.1A	
	24V AC		RTP -S- SSR - 024VAC - H - MO - 0.1A
Schematic ¹⁾			
Input parameters			
Rated input voltageU _N	110V DC	220V DC	24V AC
Input high level range	88...132V DC	176...264V DC	19...30V AC
Typical input current at input low range U _N	0...40V DC	0...40V DC	0...12V AC
	< 5mA	< 4mA	< 11mA
Output parameters			
Output (load) voltage range	30...230V AC / 48...300V DC		30...230V AC / 48...300V DC
Maximum continuous current	0.1A		0.1A
Output leakage current (OFF state)	≤1μA		≤1μA
output voltage drop	≤5.5V		≤5.5V
On-delay at U _N	≤1ms		≤10ms
Turn-off delay at U _N	≤0.5ms		≤35ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	3.5KV AC(50 Hz,1min)		3.5KV AC(50 Hz,1min)
Surge immunity	2KV		2KV
Group pulse immunity	4KV		4KV
Electrostatic discharge immunity	8KV		8KV
Specification			
Working temperature	-25℃...+70℃		-25℃...+70℃
stored temperature	-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm		87.2×72×6.2mm
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation
pollution level	3		3
Overvoltage category	III		III
Protection type	IP20		IP20
Insulation material type	Nylon		Nylon
color	Grey		Grey
Flammability rating	V0 (UL94)		V0 (UL94)
compliance	CE		CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block	
Stripping length	mm	9...10	
Reference standard		IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

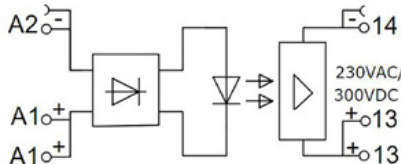
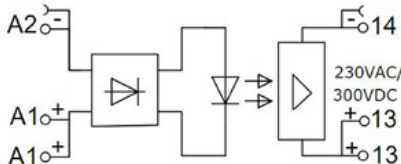
RTP-S-SSR series
Ultrathin solid state relay module



RTP-S-SSR ... AC-...0.1A RTP-S-SSR ... AC-...0.1A

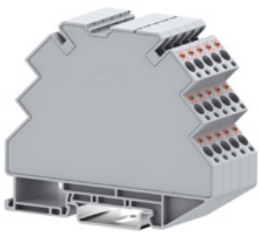
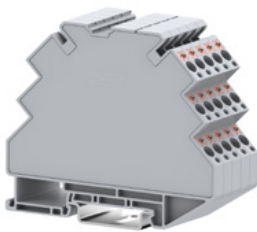
DC voltage input

AC voltage input

Description	Input Voltage	Item No.		Item No.	
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	48V AC	RTP -S- SSR - 048VAC - H - MO - 0.1A		RTP -S- SSR - 110VAC - H - MO - 0.1A RTP -S- SSR - 220VAC - H - MO - 0.1A	
	60V AC	RTP -S- SSR - 060VAC - H - MO - 0.1A			
	110V AC				
	220V AC				
Schematic ¹⁾					
Input parameters					
Rated input voltageU _N		48V AC	60V AC	110V AC	220V AC
Input high level range		38...58V AC	48...72V AC	88...132V AC	176...264V AC
Typical input current at input low range U _N		0...12V AC	0...12V AC	0...40V AC	0...40V AC
		<5mA	<5.5mA	<5mA	<4mA
Output parameters					
Output (load) voltage range		30...230V AC / 48...300V DC		30...230V AC / 48...300V DC	
Maximum continuous current		0.1A		0.1A	
Output leakage current (OFF state)		≤1μA		≤1μA	
output voltage drop		≤5.5V		≤5.5V	
On-delay at U _N		≤10ms		≤12ms	
Turn-off delay at U _N		≤45ms		≤65ms	
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)		3.5KV AC(50 Hz,1min)	
Surge immunity		2KV		2KV	
Group pulse immunity		4KV		4KV	
Electrostatic discharge immunity		8KV		8KV	
Specification					
Working temperature		-25℃...+70℃		-25℃...+70℃	
stored temperature		-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm		87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation	
pollution level		3		3	
Overvoltage category		III		III	
Protection type		IP20		IP20	
Insulation material type		Nylon		Nylon	
color		Grey		Grey	
Flammability rating		V0 (UL94)		V0 (UL94)	
compliance		CE		CE	
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5		0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block		Push-in spring terminal block	
Stripping length	mm	9...10		9...10	
Reference standard		IEC60947-5-1 GB/T14048.5		IEC60947-5-1 GB/T14048.5	

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

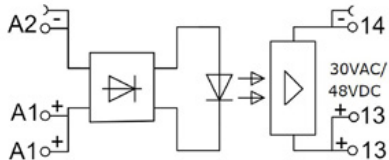
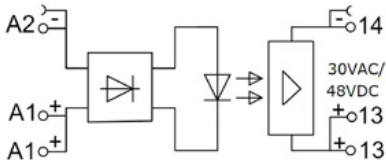
RTP-S-SSR series
Ultrathin solid state relay module



RTP-S-SSR ... DC-...0.1A RTP-S-SSR ... DC-...0.1A

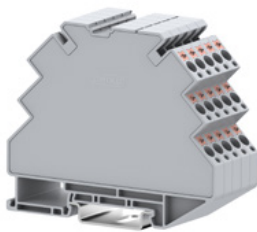
DC voltage input

DC voltage input

Description	Input Voltage	Item No.		Item No.	
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	5V DC	RTP -S- SSR - 005VDC - L - MO - 0.1A		RTP -S- SSR - 048VDC - L - MO - 0.1A RTP -S- SSR - 060VDC - L - MO - 0.1A	
	12V DC	RTP -S- SSR - 012VDC - L - MO - 0.1A			
	24V DC	RTP -S- SSR - 024VDC - L - MO - 0.1A			
	48V DC				
	60V DC				
Schematic ¹⁾					
Input parameters					
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC 60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC 48...72V DC
Typical input current at input low range U _N		0...2V DC	0...4V DC	0...12V DC	0...12V DC 0...12V DC
		<10mA	<12mA	<11mA	<5mA <6mA
Output parameters					
Output (load) voltage range		12...30V AC / 12...48V DC		12...30V AC / 12...48V DC	
Maximum continuous current		0.1A		0.1A	
Output leakage current (OFF state)		≤1μA		≤1μA	
output voltage drop		≤5V		≤5V	
On-delay at U _N		≤5ms		≤5ms	
Turn-off delay at U _N		≤5ms		≤5ms	
Dielectric and Electromagnetic Compatibility					
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)		3.5KV AC(50 Hz,1min)	
Surge immunity		2KV		2KV	
Group pulse immunity		4KV		4KV	
Electrostatic discharge immunity		8KV		8KV	
Specification					
Working temperature		-25℃...+70℃		-25℃...+70℃	
stored temperature		-40℃...+85℃		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm		87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation	
pollution level		3		3	
Overvoltage category		III		III	
Protection type		IP20		IP20	
Insulation material type		Nylon		Nylon	
color		Grey		Grey	
Flammability rating		V0 (UL94)		V0 (UL94)	
compliance		CE		CE	
Wiring Data					
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5		0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block		Push-in spring terminal block	
Stripping length	mm	9...10		9...10	
Reference standard		IEC60947-5-1 GB/T14048.5		IEC60947-5-1 GB/T14048.5	

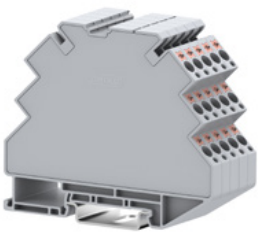
1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module



RTP-S-SSR ... DC...0.1A

DC voltage input



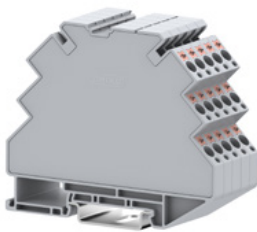
RTP-S-SSR ... AC...0.1A

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	110V DC	RTP -S- SSR - 110VDC - L - MO - 0.1A	RTP -S- SSR - 024VAC - L - MO - 0.1A
	220V DC	RTP -S- SSR - 220VDC - L - MO - 0.1A	
	24V AC		
Schematic ¹⁾			
Input parameters			
Rated input voltageU _N	110V DC	220V DC	24V AC
Input high level range	88...132V DC	176...264V DC	19...30V AC
Typical input current at input	0...40V DC	0...40V DC	0...12V AC
low range U _N	< 5mA	< 4mA	< 11mA
Output parameters			
Output (load) voltage range	12...30V AC / 12...48V DC		12...30V AC / 12...48V DC
Maximum continuous current	0.1A		0.1A
Output leakage current (OFF state)	≤1μA		≤1μA
output voltage drop	≤5V		≤5V
On-delay at U _N	≤5ms		≤10ms
Turn-off delay at U _N	≤5ms		≤35ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	3.5KV AC(50 Hz,1min)		3.5KV AC(50 Hz,1min)
Surge immunity	2KV		2KV
Group pulse immunity	4KV		4KV
Electrostatic discharge immunity	8KV		8KV
Specification			
Working temperature	-25℃...+70℃		-25℃...+70℃
stored temperature	-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK	87.2×72×6.2mm		87.2×72×6.2mm
Working Environment Humidity	5%...95% RH without condensation		5%...95% RH without condensation
pollution level	3		3
Overvoltage category	III		III
Protection type	IP20		IP20
Insulation material type	Nylon		Nylon
color	Grey		Grey
Flammability rating	V0 (UL94)		V0 (UL94)
compliance	CE		CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5	0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block	Push-in spring terminal block
Stripping length	mm	9...10	9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

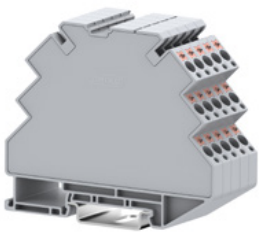
1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module



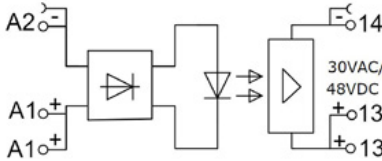
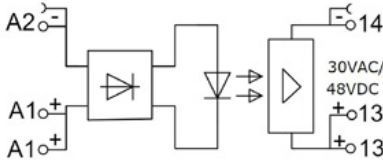
RTP-S-SSR ... AC-...0.1A

AC voltage input



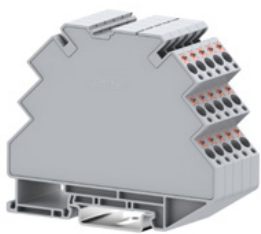
RTP-S-SSR ... AC-...0.1A

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	24V AC	RTP -S- SSR - 048VAC - L - MO - 0.1A RTP -S- SSR - 060VAC - L - MO - 0.1A	RTP -S- SSR - 110VAC - L - MO - 0.1A RTP -S- SSR - 220VAC - L - MO - 0.1A
	48V AC		
	60V AC		
	110V AC		
	220V AC		
Schematic ¹⁾			
			
Input parameters			
Rated input voltageU _N		48V AC	60V AC
Input high level range		38...58V AC	48...72V AC
Typical input current at input		0...12V AC	0...12V AC
low range U _N		<5mA	<5.5mA
Output parameters			
Output (load) voltage range		12...30V AC / 12...48V DC	
Maximum continuous current		0.1A	
Output leakage current (OFF state)		≤1uA	
output voltage drop		≤5V	
On-delay at U _N		≤10ms	
Turn-off delay at U _N		≤45ms	
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		3.5KV AC(50 Hz,1min)	
Surge immunity		2KV	
Group pulse immunity		4KV	
Electrostatic discharge immunity		8KV	
Specification			
Working temperature		-25℃...+70℃	
stored temperature		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation	
pollution level		3	
Overvoltage category		III	
Protection type		IP20	
Insulation material type		Nylon	
color		Grey	
Flammability rating		V0 (UL94)	
compliance		CE	
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5	
Wiring form		Push-in spring terminal block	
Stripping length	mm	9...10	
Reference standard		IEC60947-5-1 GB/T14048.5	

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module



RTP-S-SSR ... DC...xxA

DC voltage input

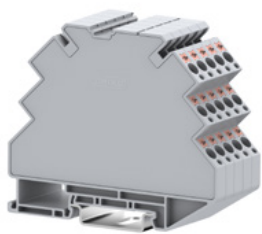
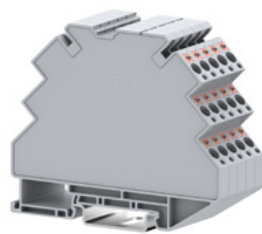
RTP-S-SSR ... DC...xxA

DC voltage input

Description	Input Voltage	Item No.			Item No.	
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	5V DC	RTP-S-SSR-005VDC-H-TZ-xxA(0.3,0.6,1,2,3A optional)				
	12V DC	RTP-S-SSR-012VDC-H-TZ-xxA(0.3,0.6,1,2,3A optional)				
	24V DC	RTP-S-SSR-024VDC-H-TZ-xxA(0.3,0.6,1,2,3A optional)				
	48V DC				RTP-S-SSR-048VDC-H-TZ-xxA(0.3,0.6,1A optional)	
	60V DC				RTP-S-SSR-060VDC-H-TZ-xxA(0.3,0.6,1A optional)	
Schematic ¹⁾						
Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...2V DC <25mA	0...4V DC <22mA	0...12V DC <20mA	0...12V DC <15mA	0...12V DC <15mA
Output parameters						
Output (load) voltage range		12...300V AC			12...300V AC	
Maximum continuous current		1A			1A	
Output leakage current (OFF state)		≤1mA			≤1mA	
output voltage drop		≤2.3V			≤2.3V	
On-delay at U _N		≤0.1ms			≤0.1ms	
Turn-off delay at U _N		≤12ms			≤12ms	
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		5KV AC(50 Hz,1min)			5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors		mm ²	0.14...4 / 0.34...2.5		0.14...4 / 0.34...2.5	
Wiring form			Push-in spring terminal block		Push-in spring terminal block	
Stripping length		mm	9...10		9...10	
Reference standard			IEC60947-5-1 GB/T14048.5		IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module

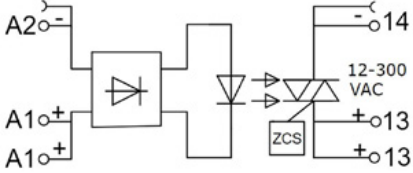


RTP-S-SSR ... AC...xxA

AC voltage input

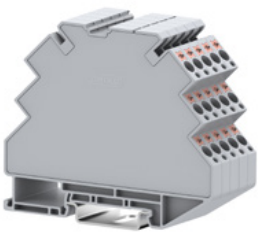
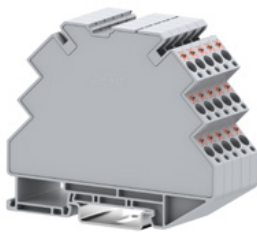
RTP-S-SSR ... AC...xxA

AC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-SSR ultra-thin optocoupler series,	24V AC	RTP -S- SSR - 024VAC - H - TZ - xxA(0.3,0.6,1A,2A optional)	
Solid State Relay RTP-S-SSR	48V AC	RTP -S- SSR - 048VAC - H - TZ - xxA(0.3,0.6,1A optional)	
mounted on DIN35 rail	60V AC	RTP -S- SSR - 060VAC - H - TZ - xxA(0.3,0.6,1A optional)	
Schematic ¹⁾			
			
Input parameters			
Rated input voltageU _N		24V AC	48V AC 60V AC
Input high level range		19...30V AC	38...58V AC 48...72V AC
Typical input current at input		0...5V AC	0...12V AC 0...12V AC
low range U _N		<20mA	<15mA <15mA
Output parameters			
Output (load) voltage range		12...300V AC	12...300V AC
Maximum continuous current		1A	1A
Output leakage current (OFF state)		≤1mA	≤1mA
output voltage drop		≤2.3V	≤2.3V
On-delay at U _N		≤15ms	≤15ms
Turn-off delay at U _N		≤20ms	≤20ms
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		5KV AC(50 Hz,1min)	5KV AC(50 Hz,1min)
Surge immunity		2KV	2KV
Group pulse immunity		4KV	4KV
Electrostatic discharge immunity		8KV	8KV
Specification			
Working temperature		-25℃...+70℃	-25℃...+70℃
stored temperature		-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm	87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation	5%...95% RH without condensation
pollution level		3	3
Overvoltage category		III	III
Protection type		IP20	IP20
Insulation material type		Nylon	Nylon
color		Grey	Grey
Flammability rating		V0 (UL94)	V0 (UL94)
compliance		CE	CE
Wiring Data			
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5	0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block	Push-in spring terminal block
Stripping length	mm	9...10	9...10
Reference standard		IEC60947-5-1 GB/T14048.5	
		IEC60947-5-1 GB/T14048.5	

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module



RTP-S-SSR ...DC...xxA

DC voltage input

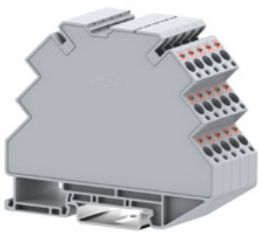
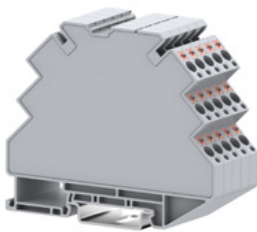
RTP-S-SSR ...DC...xxA

DC voltage input

Description	Input Voltage	Item No.			Item No.	
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	5V DC	RTP -S- SSR - 005VDC - H - TR - xxA(0.3,0.6,1A optional)			RTP -S- SSR - 048VDC - H - TR - xxA(0.3,0.6,1A optional) RTP -S- SSR - 060VDC - H - TR - xxA(0.3,0.6,1A optional)	
	12V DC	RTP -S- SSR - 012VDC - H - TR - xxA(0.3,0.6,1A optional)				
	24V DC	RTP -S- SSR - 024VDC - H - TR - xxA(0.3,0.6,1A optional)				
	48V DC					
	60V DC					
Schematic ¹⁾						
Input parameters						
Rated input voltageU _N		5V DC	12V DC	24V DC	48V DC	60V DC
Input high level range		4...6V DC	9.6...15V DC	19...30V DC	38...58V DC	48...72V DC
Typical input current at input low range U _N		0...2V DC <25mA	0...5V DC <22mA	0...5V DC <20mA	0...12V DC <15mA	0...12V DC <15mA
Output parameters						
Output (load) voltage range		12...300V AC			12...300V AC	
Maximum continuous current		1A			1A	
Output leakage current (OFF state)		≤1mA			≤1mA	
output voltage drop		≤2.3V			≤2.3V	
On-delay at U _N		≤100µs			≤100us	
Turn-off delay at U _N		≤12ms			≤12ms	
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output		5KV AC(50 Hz,1min)			5KV AC(50 Hz,1min)	
Surge immunity		2KV			2KV	
Group pulse immunity		4KV			4KV	
Electrostatic discharge immunity		8KV			8KV	
Specification						
Working temperature		-25℃...+70℃			-25℃...+70℃	
stored temperature		-40℃...+85℃87.2×72×6.2mm			-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm			87.2×72×6.2mm	
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation	
pollution level		3			3	
Overvoltage category		III			III	
Protection type		IP20			IP20	
Insulation material type		Nylon			Nylon	
color		Grey			Grey	
Flammability rating		V0 (UL94)			V0 (UL94)	
compliance		CE			CE	
Wiring Data						
Rigid/Flexible Conductors		mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5
Wiring form			Push-in spring terminal block			Push-in spring terminal block
Stripping length		mm	9...10			9...10
Reference standard		IEC60947-5-1 GB/T14048.5			IEC60947-5-1 GB/T14048.5	

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-SSR series
Ultrathin solid state relay module



RTP-S-SSR ... AC...xxA

AC voltage input

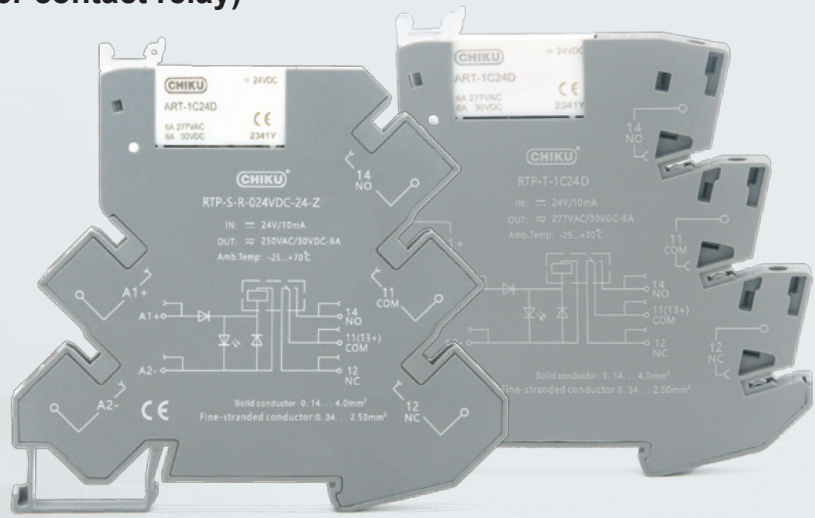
RTP-S-SSR ... AC...xxA

AC voltage input

Description	Input Voltage	Item No.		Item No.
RTP-S-SSR ultra-thin optocoupler series, Solid State Relay RTP-S-SSR mounted on DIN35 rail	24V AC	RTP -S- SSR - 024V AC - H - TR -xxA(0.3,0.6,1A optional)		RTP -S- SSR - 048V AC - H - TR -xxA(0.3,0.6,1A optional) RTP -S- SSR - 060V AC - H - TR -xxA(0.3,0.6,1A optional)
	48V AC			
	60V AC			
Schematic ¹⁾				
Input parameters				
Rated input voltageU _N		24V AC		48V AC 60V AC
Input high level range		19...30V AC		38...58V AC 48...72V AC
Typical input current at input low range U _N		0...5V AC <20mA		0...12V AC 0...12V AC <15mA <15mA
Output parameters				
Output (load) voltage range		12...300V AC		12...300V AC
Maximum continuous current		1A		1A
Output leakage current (OFF state)		≤1mA		≤1mA
output voltage drop		≤2.3V		≤2.3V
On-delay at U _N		≤15ms		≤15ms
Turn-off delay at U _N		≤20ms		≤20ms
Dielectric and Electromagnetic Compatibility				
Power frequency voltage between input and output		5KV AC(50 Hz,1min)		5KV AC(50 Hz,1min)
Surge immunity		2KV		2KV
Group pulse immunity		4KV		4KV
Electrostatic discharge immunity		8KV		8KV
Specification				
Working temperature		-25℃...+70℃		-25℃...+70℃
stored temperature		-40℃...+85℃		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		87.2×72×6.2mm		87.2×72×6.2mm
Working Environment Humidity		5%...95% RH without condensation		5%...95% RH without condensation
pollution level		3		3
Overvoltage category		III		III
Protection type		IP20		IP20
Insulation material type		Nylon		Nylon
color		Grey		Grey
Flammability rating		V0 (UL94)		V0 (UL94)
compliance		CE		CE
Wiring Data				
Rigid/Flexible Conductors		mm ²	0.14...4 / 0.34...2.5	
Wiring form			Push-in spring terminal block	
Stripping length		mm	9...10	
Reference standard		IEC60947-5-1 GB/T14048.5		IEC60947-5-1 GB/T14048.5

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-R series
Slim module
(with changeover contact relay)



It consists of a standard base terminal and a plugable small relay with conversion contact, used for various automatic protection and automatic control lines, as an output relay or to increase the number and capacity of protection and control loop contacts, with the following characteristics:

- Modular push-in technology spring terminal, convenient and quick wiring;
- Replace the relay without removing the wire;
- Safe isolation between coil and contact, isolation voltage up to 4KV RMS;
- Marker strip: ZB 6;
- Bridge: FBS 10-6
- 6.2mm standard module, saving space;
- Standard DIN-35 rail mounting.

Ultra-thin relay (base)

RTP - S - R - 005 VDC - 05 - Z

- Type of contactor: H=1 NO Z=1 switching
- Rated voltage of relay: 05: 5V, 12: 12V, 24: 24V, 60: 60V
- Type of input(control) voltage:VDC=DC VAC=AC AC/DC=VAC/DC
- Spec of input(control) voltage: 005: 5V, 012: 12V, 024: 24V 048: 48V, 060: 60V, 110: 110V, 220: 220V
- Function type: R-mechanical relay
- Wring way: S-push in T-screw in
- Ultra-thin relay

Coding of relay for ultra-thin modules

ART - 1 C 24 D

- DC coil (Only DC coil is optional for this relay)
- Coil voltage: 05: 5V, 12: 12V, 24: 24V, 60: 60V
- C: switching contact
- Number of C (max:1C for option)
- Ultra-thin relay (relay)

Coding for bases

RTP - T - 1 - C 24 - D - ...

- Special Requirements: Other: Customer code
- DC coil (Only DC coil is optional for this relay)
- coil voltage:05:5V,12:12V,24:24V,60:60V
- C: switching contact
- Number of C (max:1C for option)
- T: screw type S: spring type
- Ultra-thin relay (base)

* The "width" listed in the product parameters is the size from the top to the foot of the clamp

RTP-S-R series
Slim module
(with changeover contact relay)



RTP-S-R ...VDC...Z

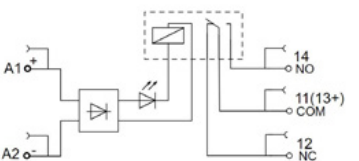
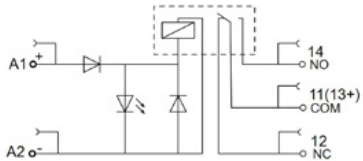
DC voltage input



RTP-S-R ...VAC/DC...Z

AC and DC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-S-R Ultra-thin module series Consists of terminals RTP-S-RB and miniature relays, mounted on DIN35 rail	5V DC	RTP-S-R - 005V DC - 05 - Z	
	12V DC	RTP-S-R - 012V DC - 12 - Z	
	24V DC	RTP-S-R - 024V DC - 24 - Z	
	24V AC/DC		RTP-S-R - 024V AC/DC - 12 - Z
	48V AC/DC		RTP-S-R - 048V AC/DC - 24 - Z
	60V AC/DC		RTP-S-R - 060V AC/DC - 24 - Z
	110V AC/DC		
	220V AC/DC		
Schematic ¹⁾			



Input (control) parameters							
Rated input voltageU _N	5V DC	12V DC	24V DC		24V AC/DC	48V AC/DC	60V AC/DC
Input high level range	4.4...6.0V DC	9.6...16V DC	19...30V DC		18...30V AC/DC	38...60V AC/DC	48...72V AC/DC
Typical input current at input low range U _N	0...0.7V DC	0...1.2V DC	0...2V DC		0...2V AC/DC	0...3V AC/DC	0...4V AC/DC
Control level status display	<30mA	<15mA	<9mA		<17mA	<10mA	<9mA
Green light emitting diode							
Output (load) parameters							
Contact type	One set of changeover				One set of changeover		
Contact material (relay)	Silver alloy	Silver alloy	Silver alloy		Silver alloy	Silver alloy	Silver alloy
Rated switching voltage	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC		250V AC/30V DC	250V AC/30V DC	250V AC/30V DC
Maximum continuous current (resistive)	6A	6A	6A		6A	6A	6A
Maximum switching power	1500VA ,180W	1500VA ,180W	1500VA ,180W		1500VA ,180W	1500VA ,180W	1500VA ,180W
On-delay at U _N	≤6ms	≤5ms	≤6ms		≤6ms	≤6ms	≤6ms
Turn-off delay at U _N	≤5ms	≤6.5ms	≤6.5ms		≤5ms	≤6.5ms	≤6.5ms
Mechanical life	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷		1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷
Electrical life	6 × 10 ⁴	6 × 10 ⁴	6 × 10 ⁴		6 × 10 ⁴	6 × 10 ⁴	6 × 10 ⁴
Dielectric and Electromagnetic Compatibility							
Power frequency voltage between input and output	4KV AC(50 Hz,1min)				4KV AC(50 Hz,1min)		
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)				1KV AC(50 Hz,1min)		
Surge immunity	2KV				2KV		
Group pulse immunity	4KV				4KV		
Electrostatic discharge immunity	8KV				8KV		
Specification							
Working temperature	-25℃...+70℃				-25℃...+70℃		
stored temperature	-40℃...+85℃				-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK	94×90×6.2mm				94×90×6.2mm		
Working Environment Humidity	5%...95% RH without condensation				5%...95% RH without condensation		
pollution level	3				III		
Overvoltage category	III				IP20		
Protection type	IP20				Nylon		
Insulation material type	Nylon				Grey		
color	Grey				V0 (UL94)		
Flammability rating	V0 (UL94)				CE		
compliance	CE						
Wiring Data							
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5		
Wiring form		Push-in spring terminal block			Push-in spring terminal block		
Stripping length	mm	9...10			9...10		
Reference standard		IEC60947-5-1 GB/T14048.5			IEC60947-5-1 GB/T14048.5		

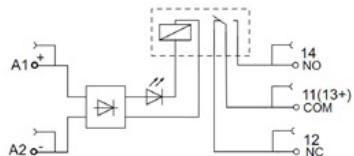
¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

(with changeover contact relay)



AC voltage input

Description	Input Voltage	Item No.
RTP-S-R Ultra-thin module series	5V DC	
Consists of terminals RTP-S-RB	12V DC	
and miniature relays,	24V DC	
mounted on DIN35 rail	24V AC/DC	
	48V AC/DC	
	60V AC/DC	
	110V AC/DC	RTP-S-R - 110V AC/DC - 60
	220V AC/DC	RTP-S-R - 220V AC/DC - 60
Schematic¹⁾		



Input (control) parameters		
Rated input voltageU _N	110V AC/DC	230V AC/DC
Input high level range	88...136V AC/DC	176...264V AC/DC
Typical input current at input low range U _N	0...6V AC/DC	0...12V AC/DC
	<4.5mA	<4.5mA
Control level status display	Green light emitting diode	
Output (load) parameters		
Contact type	One set of changeover	
Contact material (relay)	Silver alloy	Silver alloy
Rated switching voltage	277V AC/30V DC	277V AC/30V DC
Maximum continuous current (resistive)	6A	6A
Maximum switching power	1500VA ,180W	1500VA ,180W
On-delay at U _N	≤4.5ms	≤4.5ms
Turn-off delay at U _N	≤4.5ms	≤4.5ms
Mechanical life	1 × 10 ⁷	1 × 10 ⁷
Electrical life	3 × 10 ⁴ / 1 × 10 ⁴	3 × 10 ⁴ / 1 × 10 ⁴
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	4KV AC(50 Hz,1min)	
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)	
Surge immunity	2KV	
Group pulse immunity	4KV	
Electrostatic discharge immunity	8KV	
Specification		
Working temperature	-25℃...+70℃	
stored temperature	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	94×90×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	
pollution level	3	
Overvoltage category	III	
Protection type	IP20	
Insulation material type	Nylon	
color	Grey	
Flammability rating	V0 (UL94)	
compliance	CE	
Wiring Data		
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5
Wiring form		Push-in spring terminal block
Stripping length	mm	9...10
Reference standard		IEC60947-5-1 GB/T14048.5

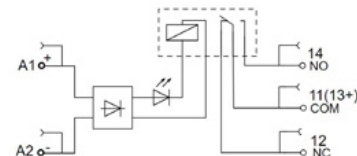
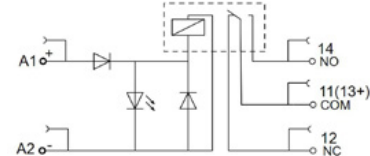
1) The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

(with changeover contact relay)



DC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-T-R Ultra-thin module series	5V DC		
Consists of terminals RTP-S-RB	12V DC	RTP-T-R - 012V DC - 12 - Z	
and miniature relays,	24V DC	RTP-T-R - 024V DC - 24 - Z	
mounted on DIN35 rail	24V AC/DC		RTP-T-R - 024V AC/DC - 12 - Z
	48V AC/DC		RTP-T-R - 048V AC/DC - 24 - Z
	60V AC/DC		RTP-T-R - 060V AC/DC - 24 - Z
	110V AC/DC		
	220V AC/DC		
Schematic¹⁾			



Input (control) parameters							
Rated input voltageU _N		5V DC	12V DC	24V DC	24V AC/DC	48V AC/DC	60V AC/DC
Input high level range		4.4...6.0V DC	9.6...16V DC	19...30V DC	18...30V AC/DC	38...60V AC/DC	48...72V AC/DC
Typical input current at input low range U _N		0...0.7V DC	0...1.2V DC	0...2V DC	0...2V AC/DC	0...3V AC/DC	0...4V AC/DC
Control level status display		<30mA	<15mA	<9mA	<17mA	<10mA	<9mA
Control level status display		Green light emitting diode					
Output (load) parameters							
Contact type		One set of changeover			One set of changeover		
Contact material (relay)		Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy
Rated switching voltage		277V AC/30V DC	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC
Maximum continuous current (resistive)		6A	6A	6A	6A	6A	6A
Maximum switching power		1500VA, 180W	1500VA, 180W	1500VA, 180W	1500VA, 180W	1500VA, 180W	1500VA, 180W
On-delay at U _N		≤6ms	≤5ms	≤6ms	≤6ms	≤6ms	≤6ms
Turn-off delay at U _N		≤5ms	≤6.5ms	≤6.5ms	≤5ms	≤6.5ms	≤6.5ms
Mechanical life		1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷
Electrical life		6 × 10 ⁴	6 × 10 ⁴	6 × 10 ⁴	6 × 10 ⁴	6 × 10 ⁴	6 × 10 ⁴
Dielectric and Electromagnetic Compatibility							
Power frequency voltage between input and output		4KV AC(50 Hz,1min)			4KV AC(50 Hz,1min)		
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)			1KV AC(50 Hz,1min)		
Surge immunity		2KV			2KV		
Group pulse immunity		4KV			4KV		
Electrostatic discharge immunity		8KV			8KV		
Specification							
Working temperature		-25℃...+70℃			-25℃...+70℃		
stored temperature		-40℃...+85℃			-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK		93.3×90×6.2mm			93.3×90×6.2mm		
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation		
pollution level		3			III		
Overvoltage category		III			IP20		
Protection type		IP20			Nylon		
Insulation material type		Nylon			Grey		
color		Grey			V0 (UL94)		
Flammability rating		V0 (UL94)			CE		
compliance		CE					
Wiring Data							
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5		
Wiring form		Screw connection terminal block M3 0.6-0.8 N.m			Screw connection terminal block M3 0.6-0.8 N.m		
Stripping length	mm	8			8		
Reference standard		IEC60947-5-1 GB/T14048.5			IEC60947-5-1 GB/T14048.5		

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side
If you have other specifications or parameters, please contact the sales staff.

RTP-T-R series

Slim module

(with changeover contact relay)

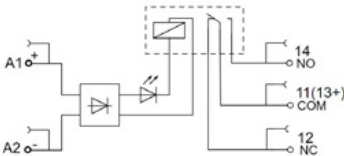


RTP-T-R ...VDC...-Z

AC voltage input

Description	Input Voltage	Item No.
RTP-T-R Ultra-thin module series	5V DC	
Consists of terminals RTP-S-RB	12V DC	
and miniature relays,	24V DC	
mounted on DIN35 rail	24V AC/DC	
	48V AC/DC	
	60V AC/DC	
	110V AC/DC	RTP-T-R - 110V AC/DC - 60 - Z
	230V AC/DC	RTP-T-R - 230V AC/DC - 60 - Z

Schematic¹⁾

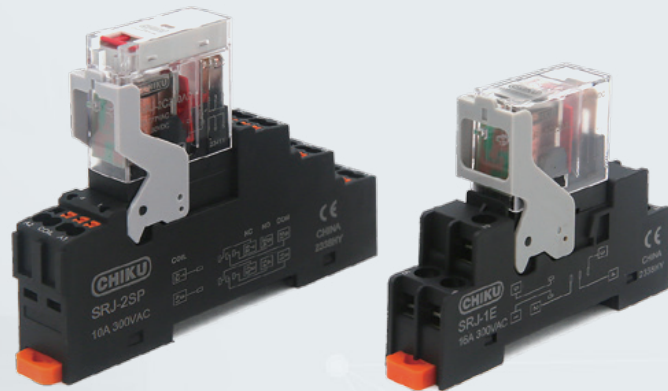


Input (control) parameters		
Rated input voltageU _N		110V AC/DC 230V AC/DC
Input high level range		88...136V AC/DC 176...264V AC/DC
Typical input current at input low range U _N		0...6V AC/DC 0...12V AC/DC
Control level status display		<4.5mA <4.5mA
		Green light emitting diode
Output (load) parameters		
Contact type		One set of changeover
Contact material (relay)		Silver alloy Silver alloy
Rated switching voltage		277V AC/30V DC 277V AC/30V DC
Maximum continuous current (resistive)		6A 6A
Maximum switching power		1500VA ,180W 1500VA ,180W
On-delay at U _N		≤4.5ms ≤4.5ms
Turn-off delay at U _N		≤4.5ms ≤4.5ms
Mechanical life		1 × 10 ⁷ 1 × 10 ⁷
Electrical life		3 × 10 ⁴ / 1 × 10 ⁴ 3 × 10 ⁴ / 1 × 10 ⁴
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output		4KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)
Surge immunity		2KV
Group pulse immunity		4KV
Electrostatic discharge immunity		8KV
Specification		
Working temperature		-25℃...+70℃
stored temperature		-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		93.3×90×6.2mm
Working Environment Humidity		5%...95% RH without condensation
pollution level		3
Overvoltage category		III
Protection type		IP20
Insulation material type		Nylon
color		Grey
Flammability rating		V0 (UL94)
compliance		CE
Wiring Data		
Rigid/Flexible Conductors	mm ²	0.14...4 / 0.34...2.5
Wiring form		Screw connection terminal block M3 0.6-0.8 N.m
Stripping length	mm	8
Reference standard		IEC60947-5-1 GB/T14048.5

¹⁾ The input circuit is related to the model, please refer to the technical parameters of the input side.
If you have other specifications or parameters, please contact the sales staff.

ARJ Series

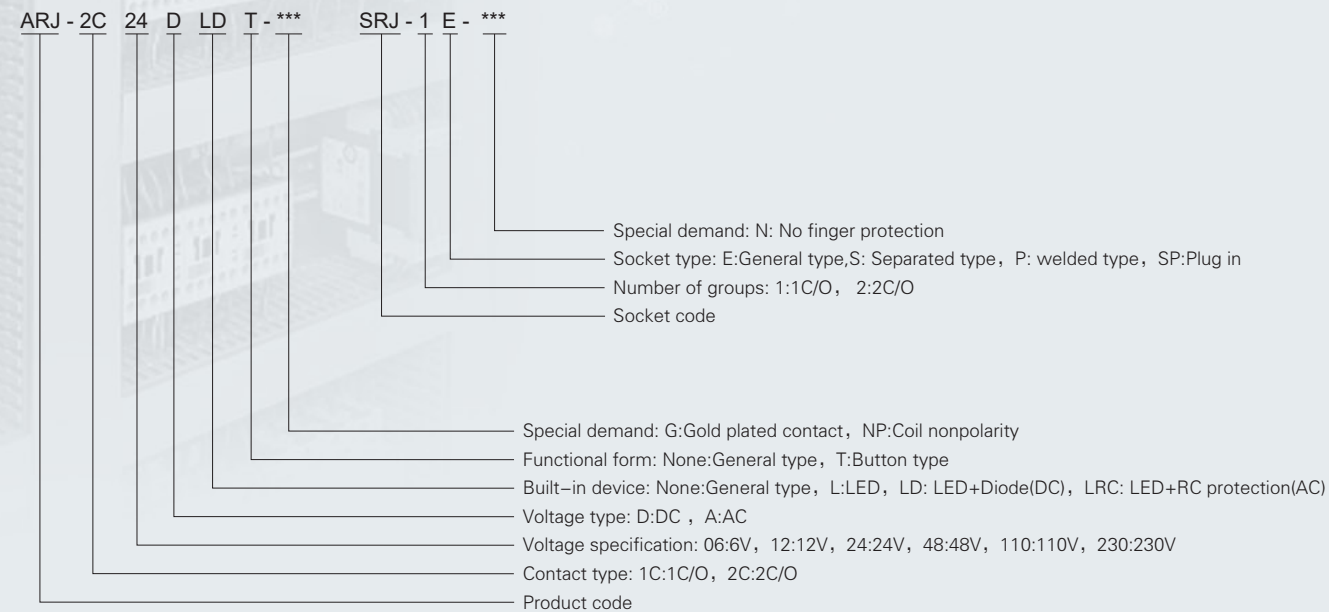
Compact power relays



- Transparent housing, visible contact status
- Conductor current: 1C/O 12A and 2C/O 8A
- With motion indicator window
- DC coil, optional: diode
- AC coil, optional: RC filter circuit
- AC: red Led indicator, DC: Green Led indicator
- Red and blue test bars to distinguish between AC and DC coil types

ARJ Relay Coding Rules

SRJ Socket Coding Rules



ARJ Series

Compact power relays



>> Type

Classification	Number of Contacts	1C / O		2C / O	
	Model	General Rated Voltage (V)		Model	General Rated Voltage (V)
General type	ARJ – 1 *	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48、DC 110		ARJ – 2 *	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48
Built-in Motion Indicator	ARJ– 1 * L	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48		ARJ– 2 * L	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48
Built-in diode+Motion indicator	ARJ– 1 * LD	DC 12、DC 24、DC 48		ARJ– 2 * LD	DC 12、DC 24、DC 48
Built-in RC +Motion indicator	ARJ– 1 * LRC	AC 230		ARJ– 2 * LRC	AC 230
Built-in Locking button+Motion Indicator	ARJ– 1 * LT	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48		ARJ– 2 * LT	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48
Built-in Locking button+Motion Indicator +Diode	ARJ– 1 * LDT	DC 12、DC 24、DC 48		ARJ– 2 * LDT	DC 12、DC 24、DC 48
Built-in Locking button+Motion Indicator+RC circuit	ARJ– 1 * LRCT	AC 230		ARJ– 2 * LRCT	AC 230

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> Coil specifications

illustration	AC								DC							
Rated voltage(V)	6	12	24	48	100/110	110/120	200/220	230	5	6	12	24	48	100	110	
Coil resistance(Ω)	16.6	66.2	265	1060	4600	5565	18400	22260	47.2	67.9	270	1090	4350	18870	22830	
Operation voltage	≤ 80% of the rated voltage								≤ 75% of the rated voltage							
Release voltage	≥ 30% of the rated voltage								≥ 10% of the rated voltage							
Maximum voltage	130% of the rated voltage								130% of the rated voltage							
Power consumption	Approx. 1.1~1.4VA(50Hz)								Approx. 0.53W							

Note:Coil resistance value is refering to be conditioned at temp.23 , the AC coil resistance tolerance is $\pm 15\%$,
DC coil resistance tolerance is when rated voltage less than 100V is $\pm 10\%$, when more or equal to 110V is $\pm 15\%$.

>> Function

	Contact resistance		Below 100mΩ (DC6V 1A)
	Motion time		Below 15ms
	Release time		DC type: Below 10ms; Below 20ms AC type or built-in RC circuit、DC with diode type.
Operation frequency	Mechanical		18000 times/h
	Electrical		12 , 00 times/h
Withstand voltage	Insulation resistance		1000MΩ (500V DC)
	between the coil and the contact		AC 5000V 1min
	Between same pole contacts		AC 1000V 1min
	Between opposite pole contacts		AC 3000V 1 min
Vibration	Error action oscillation		10 ~ 55H z (double-amplitude 1.5mm)
	Durable oscillation		10 ~ 55H z (double-amplitude 1.5mm)
Impulse	Error action impulse		98m / s²
	Durable impulse		980m / s²
Environment	Surrounding environment temperature		-40℃~70℃
	Surrounding environment humidity		5 % ~ 85%RH
Durability	Mechanical	AC coil	AC: More than 10 million times
		DC coil	DC: More than 20 million times
	Electrical (resistive load)		More than 100,000 times
	Weight		General 17g、 Button19g

ARJ Series
Compact power relays

>> Contact rated value

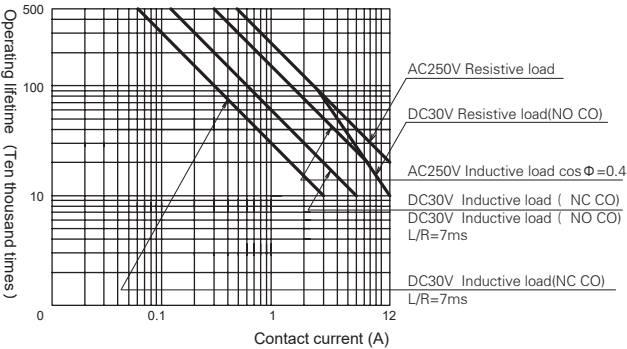
Item	Load	1C/O	2C/O
		Resistive load	Resistive load
Rated load		AC277V 12A	AC277V 8A
		DC30V 12A	DC30V 8A
Rated current		12A	8A
Maximum switching power		3300VA/360W	2200VA/240W
Max.Contact current		12A	8A
No. of Contact		1C/O	2C/O
Contact material		Silver alloy	

Item	Type	General	Diode、built-in RC type
Environment temperature		-40°C~+70°C ¹⁾	-25°C~+55°C ²⁾
Environment humidity		5%~85%RH	5%~85%RH

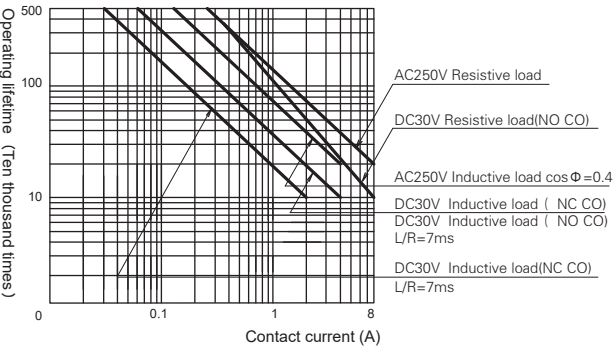
- ¹⁾ No ice, no dew
²⁾ Due to the temperature of the diode and limitation of the components, the highest temperature is 55°C

>> Lifetime

● ARJ-1

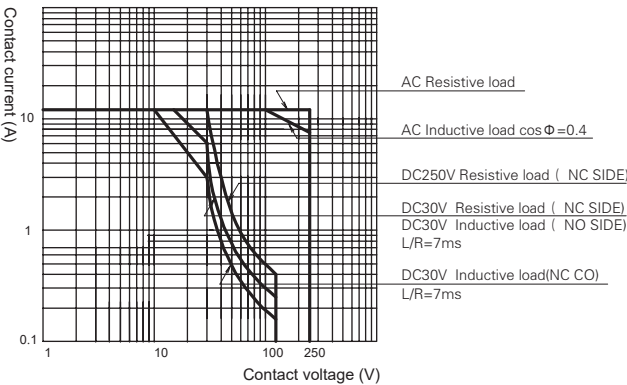


● ARJ-2

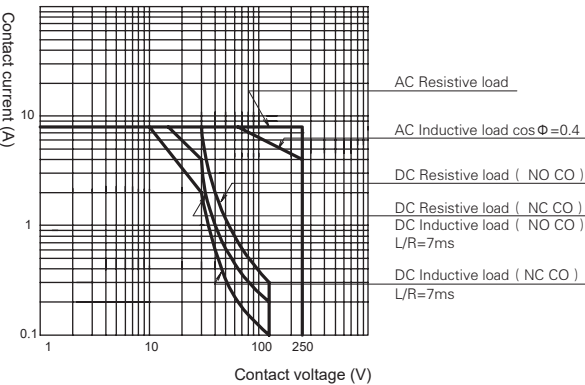


>> Switch capacity

● ARJ-1

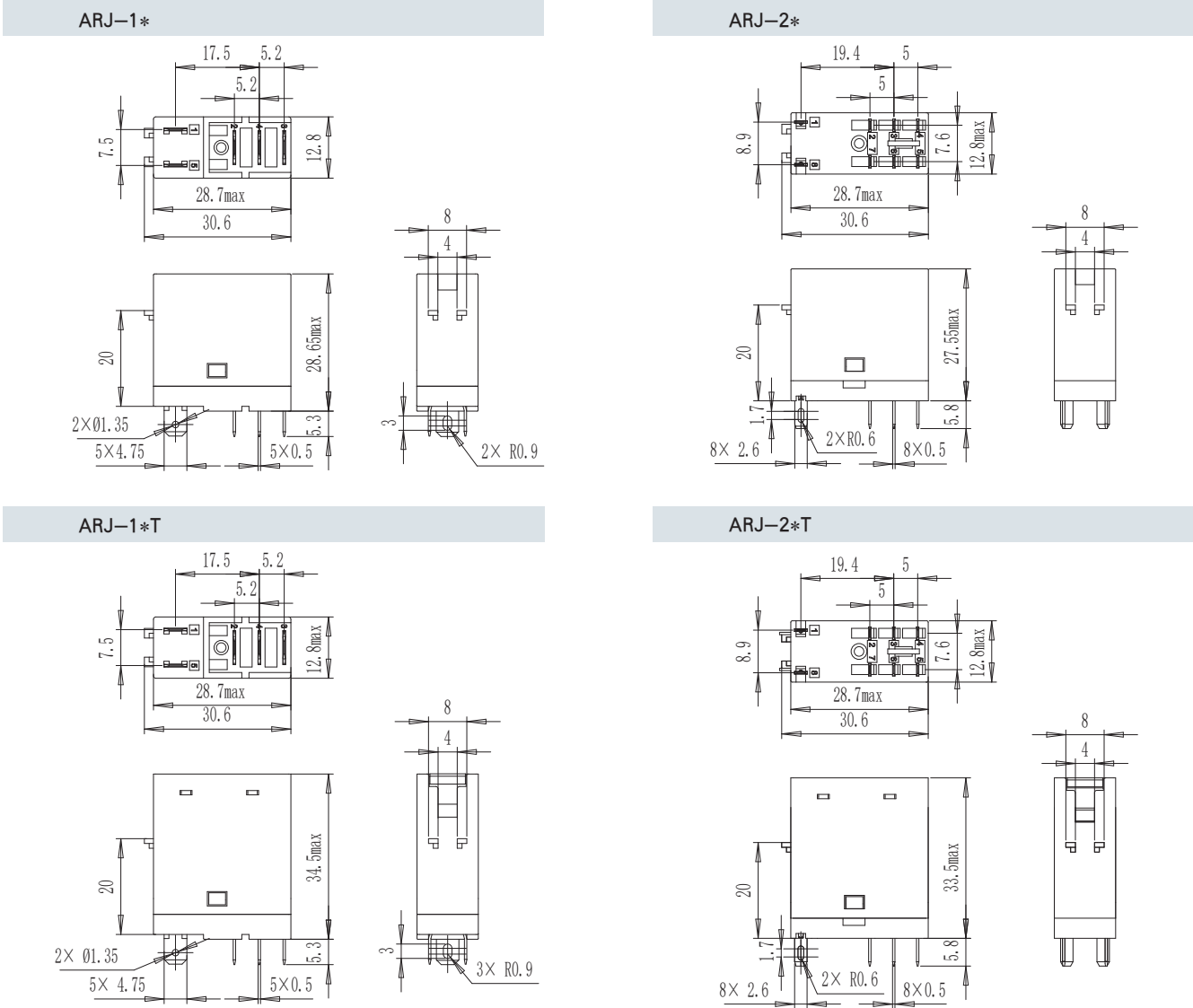


● ARJ-2



ARJ Series
Compact power relays

>> Relay dimension



>> Internal wiring Diagram

Model	General type	Built-in Motion Indicator type	Built-in Diode+Motion Indicator type(DC)	Built-in RC circuit+Motion Indicator type(AC)
ARJ-1*				
ARJ-2*				

- Note:1、DC model please note coil polarity and wiring it after confirming coil polarity.
2、Unmarked tolerance: When < 1mm, it is ±0.2mm, < 1~5mm is ±0.3mm, > 5mm is 0.4mm.

SRJ Series
Compact power relay socket

- Suitable for the ARJ series relays
- Medium withstand voltage: Up to 4000AC
(Between contact and coil)
- Insulation resistance 1000MΩ
- Wiring: Screw connection, Optional: Push-in;Welding
- Standard plastic spring (S shape, can be with mark stripe)
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

Model		SRJ-1E	SRJ-1S	SRJ-2E	SRJ-2S	SRJ-1P	SRJ-2P	SRJ-1SP	SRJ-2SP
Rated load	Current	16A		10A		10A		16A	10A
	Voltage	300 VAC							
Medium voltage resistance	Coil/Contact	4000 V/S							
	the contact space	2500 V/S							
Screw torque		1.0 N.m				-		-	
External connection wire		20–14/0.5–2.5AWG/mm ²				-		0.25mm ² ...2.5mm ² /22...14AWG	
Strip length		-						10...12mm/0.43in	
Operating environment		–40℃ ~ +85℃							
Weight		28.7g	34g	32.2g	38g	4.3g	4.4g	46g	48g

>> Socket and Accessories

Relay type	Din rail installation socket		PCB installlation socket
	Socket	Accessories	
ARJ-1*	SRJ–1E	Fixed Bridge:AR–Q–2	SRJ-1P
	SRJ–1S	Signboard:AR–B–1;Fixed Bridge:AR–Q–3;Protection module:AR–M–***	
	SRJ–1SP	Signboard:AR–B–1	
ARJ-2*	SRJ–2E	Signboard:AR–Q–2	SRJ-2P
	SRJ–2S	Signboard:AR–B–1;Fixed Bridge:AR–Q–3;Protection module:AR–M–***	
	SRJ–2SP	Signboard:AR–B–1	

Note:MOQ 10 pieces. So please order as a multiple of the minimum order quantity.

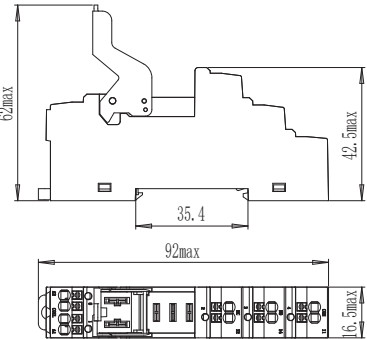
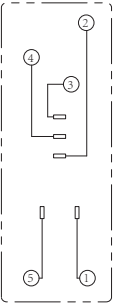
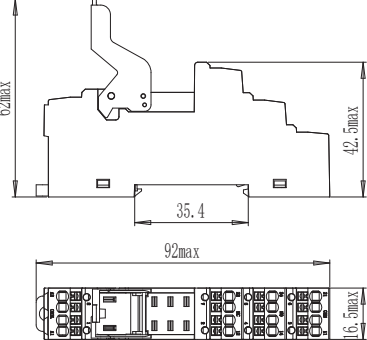
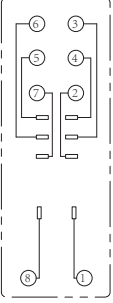
SRJ Series
Compact power relay socket

>> Socket-DIN rail installation type

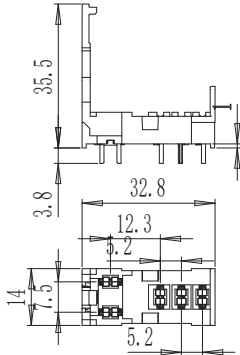
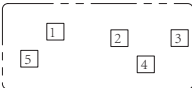
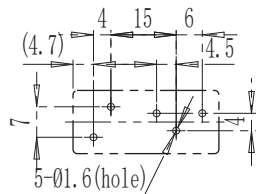
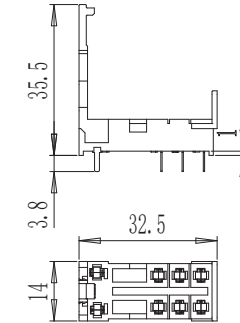
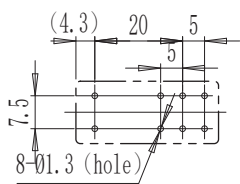
Socket	Dimension (mm)	Circuit diagram	Accessories
• SRJ-1E			 AR-Q-2
• SRJ-2E			 AR-Q-2
• SRJ-1S			 AR-B-1 AR-Q-3 AR-M-*** Note:See the attachment for the selection of the protection module
• SRJ-2S			 AR-B-1 AR-Q-3 AR-M-*** Note:See the attachment for the selection of the protection module

SRJ Series
Compact power relay socket

>> DIN rail connection socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRJ-1SP 			 AR-B-1
• SRJ-2SP 			 AR-B-1

>> PCB connection socket

Socket	Dimension(Unit:mm)	Terminal array /Installation hole size(Unit:mm)
• SRJ-1P 		Terminal array (bottom view)  Installation hole size 
• SRJ-2P 		Terminal array (bottom view)  Installation hole size 

Note:1、 Unmarked tolerance: When < 1mm, it is ±0.2mm, < 1 ~ 5mm is ±0.3mm, > 5mm is 0.4mm.
2、 Installation hole size tolerance: ±0.1mm.

ARM Series
General power relays



- Transparent housing, visible contact status
- Conductor current：2C/O、 3C/O 7A and 4 C/O 5A
- With motion indicator window
- DC coil, optional： diode
- AC coil, optional： RC protection component
- AC: red Led indicator, DC: Green Led inidicator
- Red and blue test bars to distinguish AC and DC coil types

ARM Relay Coding Rule

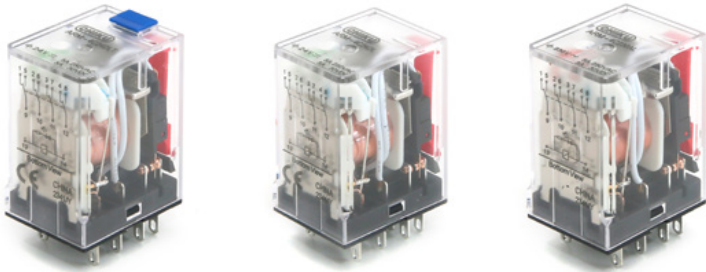
SRM Socket Coding Rule

ARM - 2C 24 D L T - ***

SRM - 2 E - ***

- Special demand: N: No protection for finger
- Socket type: E:General,S: Separated type,M:Mixed,P:Welded type, SP:Plug in
- Number of groups: 2:2C/O, 3:3C/O, 4:4C/O
- Socket code
- Special demand: G:Gold plated contact, NP:Coil nonpolarity, F:Flange plate installation, P:PCB welded type
- Functional form: None:General type, T:Button type
- Built-in device: None:No components, L:LED, LD: LED+Diode(DC), LRC: LED+RC protection(AC)
- Voltage type: D:DC, A:AC
- Voltage specification: 06:6V, 12:12V, 24:24V,
- Contact type: 2C:2C/O, 3C:3C/O, 4C:4C/O, 2A:2NO, 3A:3NO, 4A:4NO
- Product code

ARM Series
General power relays



>> Type

Classification \ Number of contacts	2C/O			3C/O			4C/O		
	Model	General Rated Voltage (V)		Model	General Rated Voltage (V)		Model	General Rated Voltage (V)	
General type	ARM-2*	AC12、AC24、AC110、AC230		ARM-3*	AC12、AC24、AC110、AC230		ARM-4*	AC12、AC24、AC110、AC230	
Built-in Motion Indicator	ARM-2*L	DC12、DC24		ARM-3*L	DC12、DC24		ARM-4*L	DC12、DC24	
Built-in Diode+Motion Indicator	ARM-2*LD	DC12、DC24		ARM-3*LD	DC12、DC24		ARM-4*LD	DC12、DC24	
-	-	-		-	-		-	-	

General type-PCB pins	ARM-2*-P	AC12、AC24、AC110、AC230		ARM-3*-P	AC12、AC24、AC110、AC230		ARM-4*-P	AC12、AC24、AC110、AC230	
Built-in Motion Indicator type-PCB pins	ARM-2*L-P	DC12、DC24		ARM-3*L-P	DC12、DC24		ARM-4*L-P	DC12、DC24	
Built-in Diode+Motion Indicator type-PCB pins	ARM-2*LD-P	DC12、DC24		ARM-3*LD-P	DC12、DC24		ARM-4*LD-P	DC12、DC24	
-	-	-		-	-		-	-	

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> Coil specifications

Illustration	AC								DC								
Rated voltage(V)	6	12	24	48	110/120	220	230	240	6	9	12	24	48	60	110	120	220
Coil resistance(Ω)	11.5	45	180	640	4500	13000	17000	18790	40	90	180	650	2600	3900	13000	17000	42000
Operation voltage	≤ 80% of the rated voltage								≤ 75% of the rated voltage								
Release voltage	≥ 30% of the rated voltage								≥ 10% of the rated voltage								
Maximum voltage	110% of the rated voltage								110% of the rated voltage								
Power consumption	Approx. 1.1~1.8VA								Approx. 0.9~1.1W								

Note:Coil resistance value is refering to be conditioned at temp.23 , the AC coil resistance tolerance is ± 15%,
DC coil resistance tolerance is when rated voltage less than 100V is ± 10%, when more or equal to 110V is ± 15%.

>> Function

	Contact resistance	Below 100mΩ (DC6V 1A)
	Motion time	Below 20ms
	Release time	AC≤25ms、DC≤15ms
Operation frequency	Mechanical	18 , 000 times/h
	Electrical	12 , 00 times/h
Withstand voltage	Insulation resistance	1000MΩ (500V DC)
	between the coil and the contact	AC 2000V 1min
	Between same pole contacts	AC 1000V 1min
	Between opposite pole contacts	AC 1500V 1 min
Vibration	Error action oscillation	10 ~ 55H z (double-amplitude 1.5mm)
	Durable oscillation	10 ~ 55H z (double-amplitude 1.5mm)
Impulse	Error action impulse	98m / s ²
	Durable impulse	980m / s ²
Environment	Surrounding environment temperature	-40℃~70℃
	Surrounding environment humidity	5 % ~ 85%RH
Durability	Mechanical	More than 10 million times
	Electrical (resistive load)	More than 100,000 times
	Weight	Approx.35g

ARM Series
General power relays

>> Contact rated value

Item \ Load	2C/O 3C/O		4C/O	
	Resistive load		Resistive load	
Rated load	AC250V	7A	AC250V	5A
	DC30V	7A	DC30V	5A
Rated current	7A		5A	
Maximum switching power	1750VA / 210W		1250VA / 150W	
Max.Contact current	7A		5A	
No. of Contact	2C/O 3C/O		4C/O	
Contact material	Silver alloy			

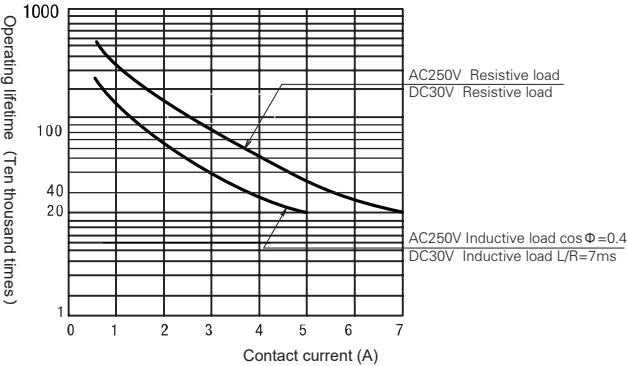
Item \ Type	General	Action indicator light, diode, RC built-in type
Environment temperature	-40℃~ +55℃ ¹⁾	-25℃~+55℃ ²⁾
Environment humidity	5%~85%RH	5%~85%RH

¹⁾ No ice, no dew

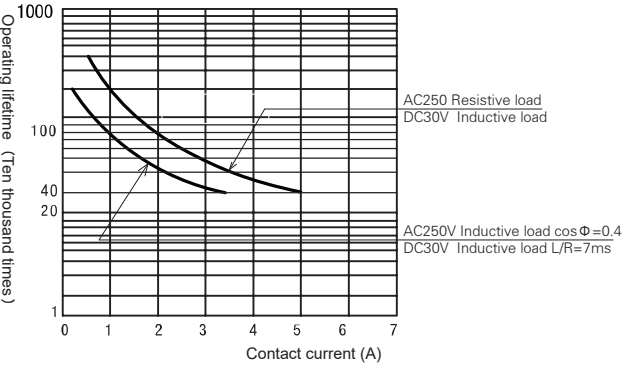
²⁾ Due to the temperature of the diode and limitation of the components, the highest temperature is 55℃

>> Lifetime

● ARM-2 / ARM-3

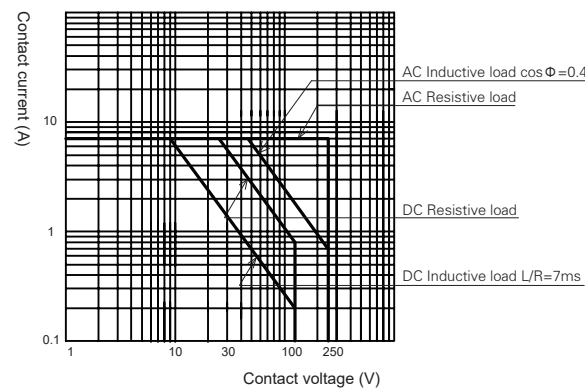


● ARM-4

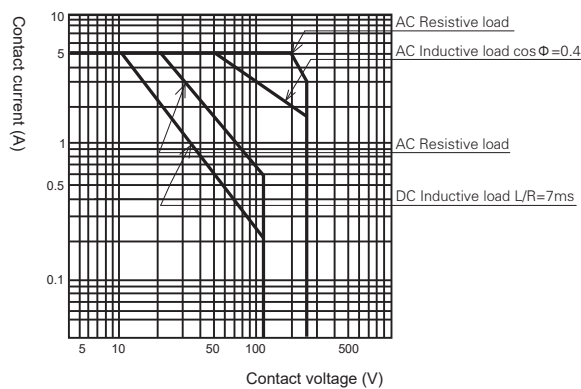


>> Switch capacity

● ARM-2 / ARM-3



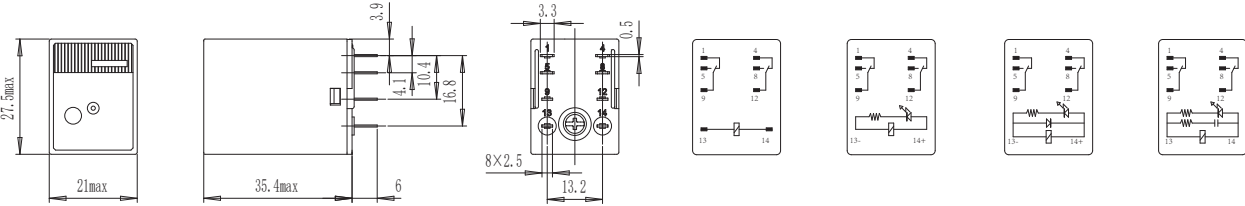
● ARM-4



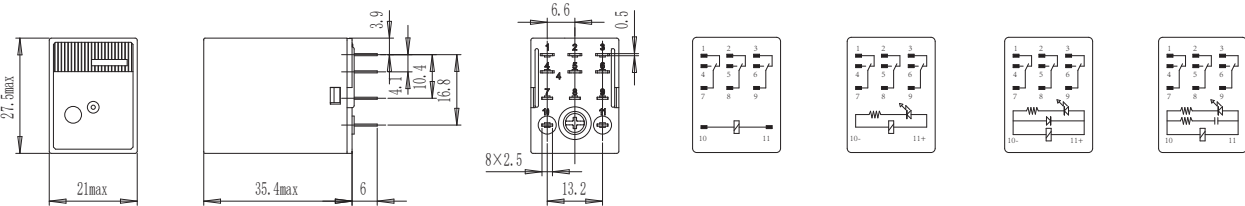
ARM Series
General power relays

>> Relay dimension

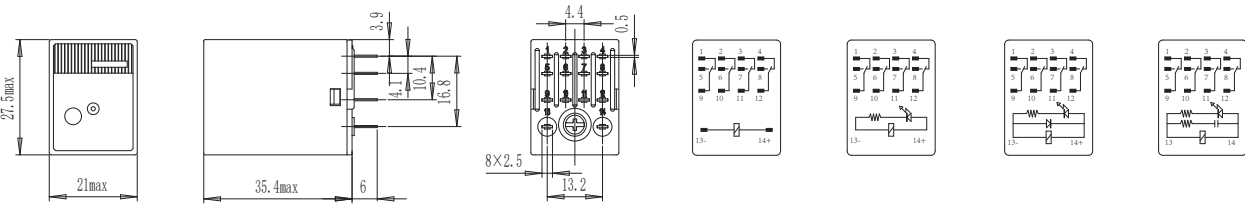
Model	Normalized type	With lights type	With lights + diodes type	With lights + RC circuit
ARM-2	ARM-2*	ARM-2*DL	ARM-2*DLD	ARM-2*ALRC



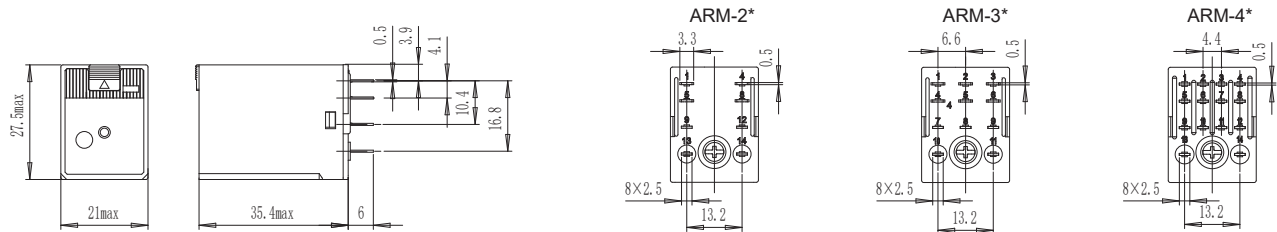
ARM-3	ARM-3*	ARM-3*DL	ARM-3*DLD	ARM-3*ALRC
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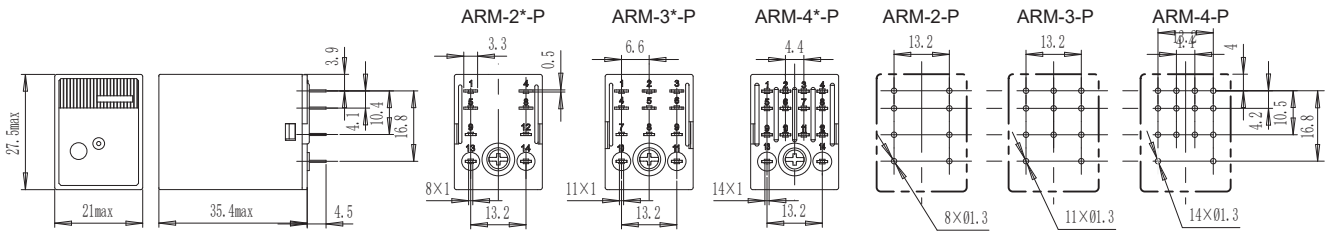
ARM-4	ARM-4*	ARM-4*DL	ARM-4*DLD	ARM-4*ALRC
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ARM (Button type)



ARM-P



Note:1、Unmarked tolerance: When < 1mm, it is ±0.2mm, < 1 ~ 5mm is ±0.3mm, > 5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

Note:DC model please note coil polarity and wiring it after confirming coil polarity.

SRM Series
General power relay socket

- Suitable for the ARM series relays
- Medium withstand voltage: Up to 4000AC
(Between contact and coil)
- Insulation resistance 1000MΩ
- Wiring: Screw connection, Optional: Push-in;Welding
- Standard plastic spring (S shape, can be with the mark stripe)
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

Model		SRM-2E	SRM-2S	SRM2M	SRM-4E	SRM-4S	SRM-4M	SRM-2P	SRM-4P	SRM-2SP	SRM-4SP
Rated load	Current	10A	12A		7A	10A		10A		12A	10A
	Voltage	300 VAC									
Medium voltage resistance	Coil/Contact the contact space	200 V/s	4000 V/s		200 V/s	4000 V/s		200 VAC		4000 V/s	
			2500 V/s			2500 V/s				2500 V/s	
Screw torque		1.0 N.m							-		-
External connection wire		20-14/0.5-2.5AWG/mm ²							-		0.25mm ² ...2.5mm ² /22...14AWG
Strip length		-							-		10...12mm/0.43in
Operating environment		-40℃ ~ +85℃									
Weight		34.6g	56g	52g	50.5g	68g	62g	6g	7.3g	46g	48g

>> Socket and Accessories

Relay type	Din rail installation socket		PCB installation socket	
	Socket	Accessories	Socket	Accessories
ARM-2*	SRM-2E	Fixed Bridge:AR-Q-4 Stainless steel spring:AR-C-M1	SRM-2P	Stainless steel wire metal spring
	SRM-2M	Signboard:AR-B-2 Fixed Bridge: AR-Q-5 Plastic spring:AR-C-P1		
	SRM-2S	Protection module:AR-M-*** Stainless steel spring:AR-C-M2(M Mode)		
	SRM-2SP	Plastic spring: AR-C-P1 Stainless steel spring: AR-C-M1 Signboard:AR-B-2		
ARM-3*	SRM-3E	Stainless steel spring:AR-C-M1	SRM-3P	
ARM-4*	SRM-4E	Fixed Bridge:AR-Q-4 Stainless steel spring:AR-C-M1	SRM-4P	
	SRM-4M	Signboard:AR-B-2 Fixed Bridge:AR-Q-5 Plastic spring:AR-C-P1		
	SRM-4S	Protection module:AR-M-*** Stainless steel spring:AR-C-M2(M型)		
	SRM-4SP	Plastic spring:AR-C-P1 Stainless steel spring:AR-C-M1 Signboard:AR-B-2		

SRM Series
General power relay socket

>> DIN rail connection socket

Socket	Dimension (mm)	Circuit diagram	Accessories
• SRM-2E			
• SRM-4E			
• SRM-2M			
• SRM-4M			
• SRM-2S			

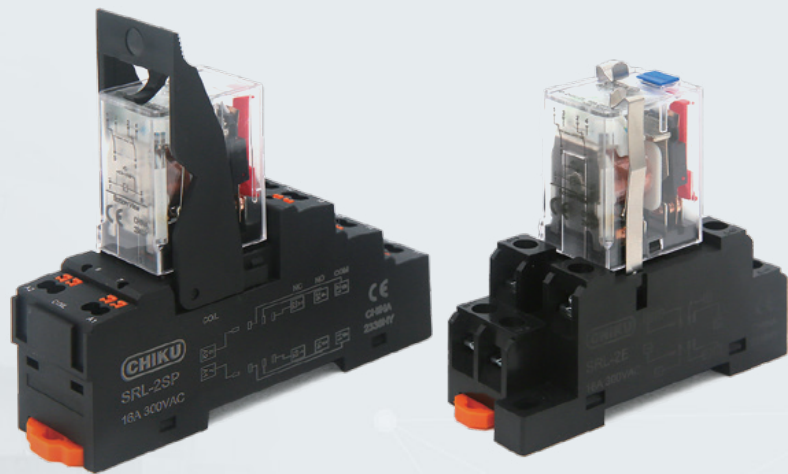
SRM Series
General power relay socket

>> DIN rail connection socket

Socket	Dimension (mm)	Circuit diagram	Accessories
• SRM-4S			
• SRM-2SP			
• SRM-4SP			
>> PCB connection socket			
• SRM-2P			
• SRM-4P			

Note:1、Unmarked tolerance: When < 1mm, it is ±0.2mm, < 1 ~ 5mm is ±0.3mm, > 5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

ARL Series
General power relays



- Transparent housing, visible contact status
- Conductor current: 2C/O,3C/O,4C/O 10A
- With/Without LED
- DC coil, optional: diode
- AC coil, optional: RC filter circuit
- AC: red Led indicator, DC: Green Led inidicator

ARL Relay Coding Rules



SRL Socket Coding Rules



- Special demand: N: No finger protection
- Socket type: E:General type, P: welded type, SP:Plug in
- Number of groups: 2:2C/O, 3:3C/O, 4:4C/O
- Socket code
- Special demand: G:Gold plated contact, NP:Coil nonpolarity, F:Load current 12A, P:PCB connection
- Functional form: None:General type, T:Button type
- Built-in device: None:Normalized type, L:LED, LD: LED+Diode(DC), LRC: LED+RC protection(AC)
- Voltage type: D:DC, A:AC
- Voltage specification: 06:6V, 12:12V, 24:24V, ...
- Contact type: 2C:2C/O, 3C:3C/O, 4C:4C/O, 2A:2NO
- Product code

ARL Series
General power relays



>> Type

Classification	2C/O		3C/O		4C/O	
	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)
Normalized type	ARL-2*	AC12、AC24、AC110、AC230	ARM-3*	AC12、AC24、AC230	ARM-4*	AC12、AC24、AC230
Built-in Motion Indicator	ARL-2*L	DC12、DC24	ARM-3*L	DC12、DC24	ARM-4*L	DC12、DC24
Built-in Diode+Motion Indicator	ARL-2*LD	DC12、DC24				
Built-in RC +Motion indicator	-	-				
Normalized type-PCB pins	ARL-2*-P	AC12、AC24、AC110、AC230	ARM-3*-P	AC12、AC24、AC230	ARM-4*-P	AC12、AC24AC230
Built-in Motion Indicator light type-PCB pins	ARL-2*L-P	AC12、AC24、AC110、AC230	ARM-3*L-P	DC12、DC24	ARM-4*L-P	DC12、DC24
Built-in Diode+Motion Indicator type-PCB pins	ARL-2*LD-P	DC12、DC24				
Built-in RC circuit+Motion Indicator type-PCB pins	-	-				

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> ARL-2* Coil specifications

Illustration	AC								DC								
Rated voltage(V)	6	12	24	48	110/120	220	230	240	6	9	12	24	48	60	110	120	220
Coil resistance(Ω)	11.5	45	180	640	4500	13000	17000	18790	40	90	180	650	2600	3900	13000	17000	42000
Operation voltage	≤ 80% of the rated voltage								≤ 75% of the rated voltage								
Release voltage	≥ 30% of the rated voltage								≥ 10% of the rated voltage								
Maximum voltage	110% of the rated voltage								110% of the rated voltage								
Power consumption	Approx. 1.1~1.8VA								Approx. 0.9~1.1W								

>> ARL-3* Coil specifications

illustration	AC				DC				AC				DC			
Rated voltage(V)	12	24	100/110	200/220	12	24	48	100/110	12	24	100/110	200/220	12	24	48	100/110
Coil resistance(Ω)	24	100	2300	2650	107	410	1700	8500	20	78	1800	6700	100	350	1600	6900
Operation voltage	≤ 80% of the rated voltage				≤ 80% of the rated voltage				≤ 80% of the rated voltage				≤ 80% of the rated voltage			
Release voltage	≥ 30% of the rated voltage				≥ 10% of the rated voltage				≥ 30% of the rated voltage				≥ 10% of the rated voltage			
Maximum voltage	110% of the rated voltage				110% of the rated voltage				110% of the rated voltage				110% of the rated voltage			
Power consumption	Approx.1.6~2.0VA				Approx. 1.4W				Approx.1.9~2.5VA				Approx.1.5W			

Note:Coil resistance value is refering to be conditioned at temp.23 , the AC coil resistance tolerance is ± 15%,
DC coil resistance tolerance is when rated voltage less than 100V is ± 10%, when more or equal to 110V is ± 15%.

>> ARL-4* Coil specifications

illustration	AC				DC				AC				DC			
Rated voltage(V)	12	24	100/110	200/220	12	24	48	100/110	12	24	100/110	200/220	12	24	48	100/110
Coil resistance(Ω)	24	100	2300	2650	107	410	1700	8500	20	78	1800	6700	100	350	1600	6900
Operation voltage	≤ 80% of the rated voltage				≤ 80% of the rated voltage				≤ 80% of the rated voltage				≤ 80% of the rated voltage			
Release voltage	≥ 30% of the rated voltage				≥ 10% of the rated voltage				≥ 30% of the rated voltage				≥ 10% of the rated voltage			
Maximum voltage	110% of the rated voltage				110% of the rated voltage				110% of the rated voltage				110% of the rated voltage			
Power consumption	Approx.1.6~2.0VA				Approx. 1.4W				Approx.1.9~2.5VA				Approx.1.5W			

Note:Coil resistance value is refering to be conditioned at temp.23 , the AC coil resistance tolerance is ± 15%,
DC coil resistance tolerance is when rated voltage less than 100V is ± 10%, when more or equal to 110V is ± 15%.

ARL Series
General power relays

>> Function

	Contact resistance	Below 100mΩ (DC6V 1A)
	Motion time	Below 20ms
Operation frequency	Release time	AC≤25ms, DC≤15ms
	Mechanical	18,000 times/h
	Electrical	12,000 times/h
	Insulation resistance	1000MΩ (500V DC)
Withstand voltage	between the coil and the contact	AC 2000V 1min
	Between same pole contacts	AC 1000V 1min
	Between opposite pole contacts	AC 1500V 1min
Vibration	Error action oscillation	10 ~ 55Hz (double-amplitude 1.5mm)
	Durable oscillation	10 ~ 55Hz (double-amplitude 1.5mm)
Impulse	Error action impulse	98m/s ²
	Durable impulse	980m/s ²
Environment	Surrounding environment temperature	-40°C~70°C
	Surrounding environment humidity	5% ~ 85%RH
Durability	Mechanical	More than 10 million times
	Electrical (resistive load)	More than 100,000 times
	Weight	2C/O Approx.37g; 3C/O Approx.50g; 4C/O Approx.70g

>> Contact rated value

Item	Load	2C/O 3C/O 4C/O
		Resistive load
Rated load	AC250V 10A DC30V 10A	
Rated current	10A	
Maximum switching power	2500VA / 300W	
Max.Contact current	10A	
No. of Contact	2C/O,3C/O,4C/O	
Contact material		Silver alloy

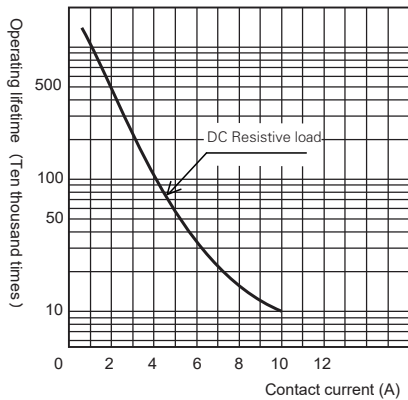
Item	Type	General	Action indicator light, diode, RC built-in type
Environment temperature		-40°C~+55°C ¹⁾	-25°C~+55°C ²⁾
Environment humidity		5%~85%RH	5%~85%RH

¹⁾ No ice, no dew

²⁾ Due to the temperature of the diode and limitation of the components, the highest temperature is 55°C

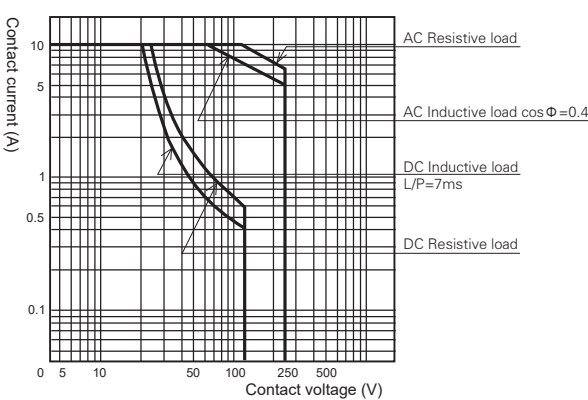
>> Lifetime

● ARL-2 / ARL-3 / ARL-4



>> Switch capacity

● ARL-2 / ARL-3 / ARL-4



ARL Series
General power relays

>> Relay dimension

Model	Normalized type		Built-in Motion Indicator type	
ARL-2*				
ARL-2*-P				
ARL-2*T				
ARL-3*				
ARL-3*-P				
ARL-4*				
ARL-4*-P				

ARL Series
General power relay socket

- Suitable for the ARJ series relays
- Medium withstand voltage: Up to 4000AC
(Between contact and coil)
- Insulation resistance 1000MΩ
- Wiring: Screw connection, Optional: Push-in;
and PCB Welding
- Spring and fixed bridge for option
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

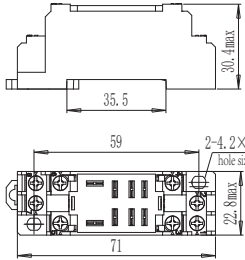
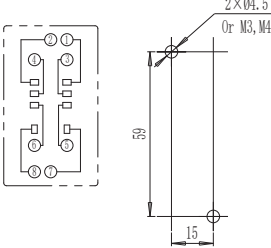
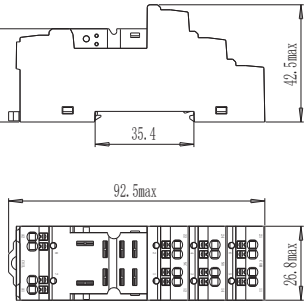
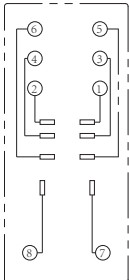
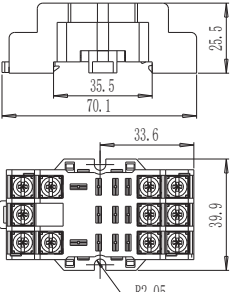
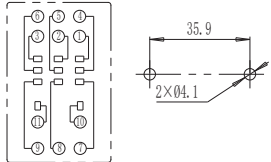
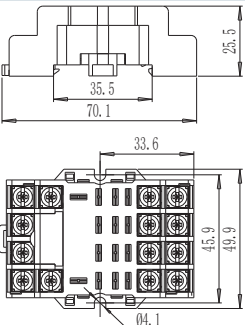
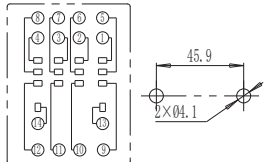
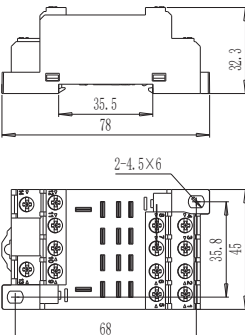
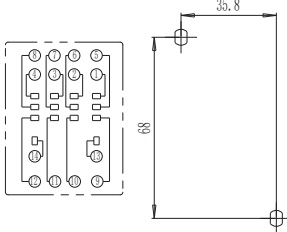
Model		SRL-2E	SRL-3E-N	SRL-4E-N	SRL-4E	SRL-2P	SRL-4P	SRL-2SP
Rated load	Current	10A			16A	10A		16A
	Voltage	300 VAC						
Medium voltage resistance	Coil/Contact	2000 V/s						4000 V/s
	the contact space							2500 V/s
Screw torque		1.0 N.m				-		-
External connection wire		20-14/0.5-2.5AWG/mm²				-		0.25mm²...2.5mm²/22...14AWG
Strip length		-				-		10...12mm/0.43in
Operating environment		-40℃ ~ +85℃						
Weight		37.4g	58g	73g	86g	7.5g	14g	46g

>> Socket and accessories

Relay type	Din rail installation socket		PCB installation socket	
	Socket	Accessories	Socket	Accessories
ARL-2*	SRL-2E	Stainless steel spring:AR-C-M1	SRL-2P	Stainless steel wire metal spring:AR-C-M3
	SRL-2SP	Plastic spring:AR-C-P1		
ARL-3*	SRL-3E-N	Stainless steel spring:AR-C-M4	-	-
ARL-4*	SRL-4E-N		SRL-4P	Stainless steel wire metal spring:AR-C-M3
	SRL-4E	Stainless steel spring:AR-C-M1		

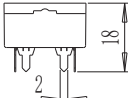
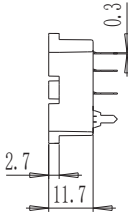
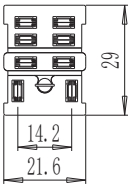
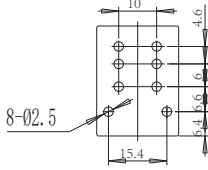
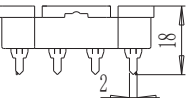
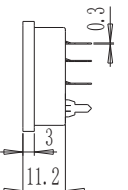
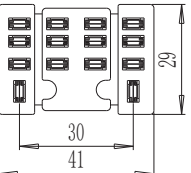
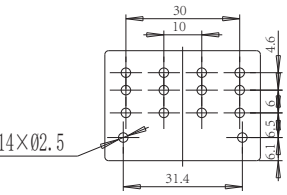
ARL Series
General power relay socket

>> DIN rail installation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRL-2E	 		 AR-C-M1
• SRL-2SP	 		 AR-C-P1
• SRL-3E-N	 		 AR-C-M4
• SRL-4E-N	 		 AR-C-M4
• SRL-4E	 		 AR-C-M1

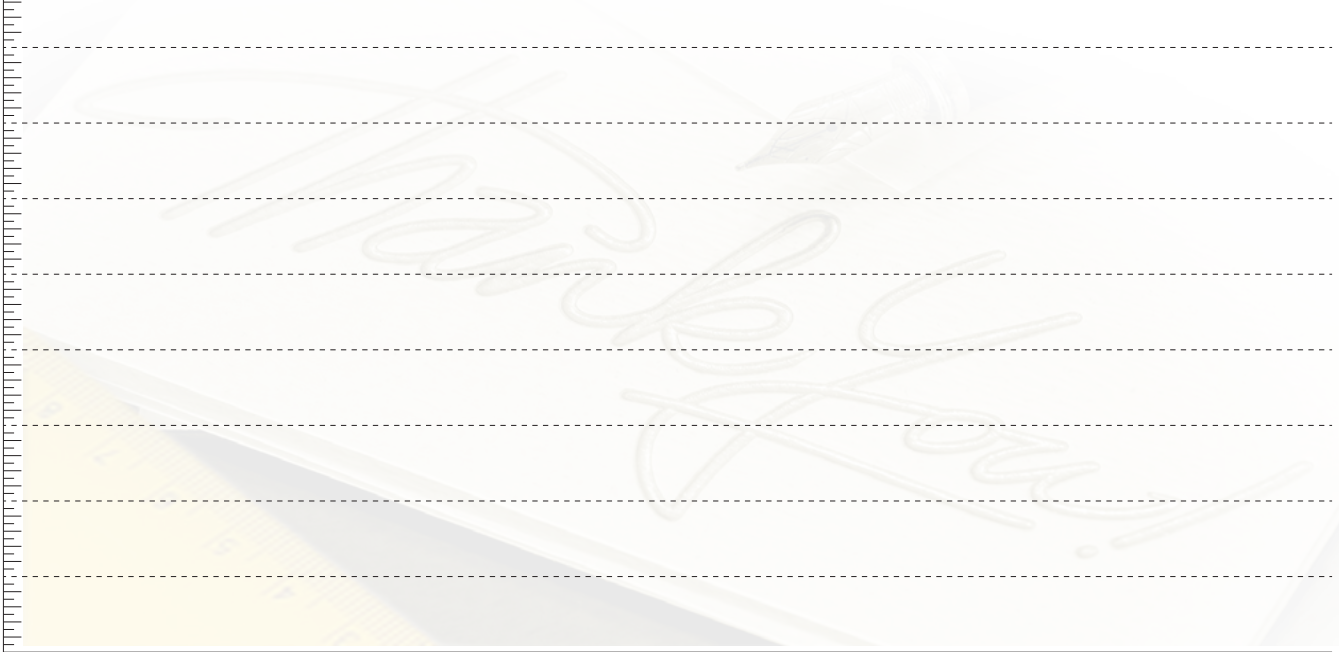
ARL Series
General power relay socket

>> PCB installlation socket

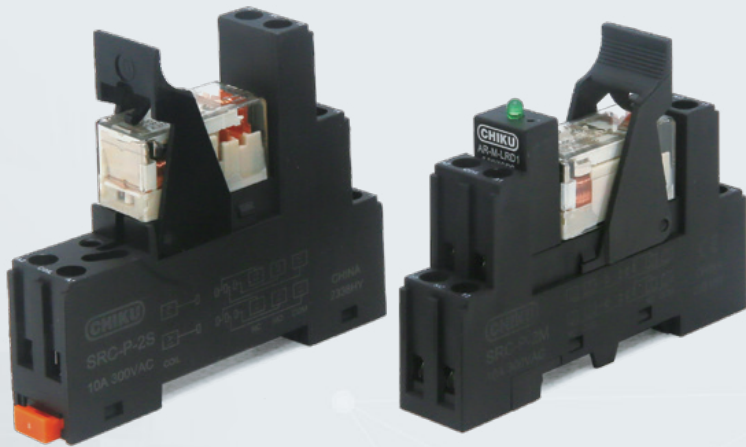
Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRL-2P 	  		 AR-C-M3
• SRL-4P 	  		 AR-C-M3

Note:1、Unmarked tolerance: \When < 1mm, it is ±0.2mm, < 1 ~ 5mm is ±0.3mm, > 5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

Take Notes



ARC-P series
Miniature power relay



- Transparent housing, visible contact status
- Conductor current: 1C/O 16A,2C/O 8A
- Low height: only 15.7m m
- Dielectric withstand voltage between coil and contact 5KV

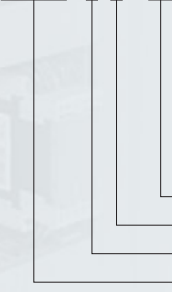
ARC-P Relay Coding Rules

ARC-P - 2C 24D H - ***



SRC-P Relay Coding Rules

SRC-P - 2 S - ***



- Special demand:other: whether adding sth. depends on the material changes later.
- Socket type: M :Mixed, S :Separating, P :Soldering
- Number of groups: 1:1C/O, 2:2C/O
- Socket code

- Special demand: G:gold-plated contact, other: whether adding sth. depends on the material changes later.
- Customized code: None:mount space 3.5mm, H:mount space 5.08mm
- Voltage type: D:DC, A:AC
- Voltage specification: 06:6V, 12:12V, 24:24V
- Contact type: 1C:1C / O, 2C:2C / O
- Product code

ARC-P series
Miniature power relay



>> Type

Classification	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)
Normalized type	ARC-P-1*	DC12、DC24	ARC-P-1*H	DC12、DC24	ARC-P-2*H	DC12、DC24

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> ARC-P Coil Specification

illustration	DC								
Rated voltage(V)	3	5	6	9	12	18	24	48	60
Coil resistance(Ω)	22.5	62	90	200	360	360	1440	5760	7500
Operation voltage	≤75% of the rated voltage								
Release voltage	≥10% of the rated voltage								
Maximum voltage	130% of the rated voltage								
Power consumption	Approx. 0.4W								

Note: 1. The coil resistance value refers to the coil temperature is 23°C.The tolerance is: The AC coil resistance ± 15%,The DC coil resistance: rated voltage < DC100V ± 10%, rated voltage ≥DC110V ± 15%.

2. The maximum allowable voltage is the maximum voltage value that the relay coil can withstand in a short period of time.

3. For products with a rated voltage of 48V, in order to protect the coil from damage, there must be measures to inhibit the overvoltage generation of the coil in the testing and application.
(For example: coil is connected in parallel with a diode) .

ARC-P series
Miniature power relay

>> Function

	Contact resistance	Below 100mΩ (DC6V 1A)
	Motion time	Below 20ms
	Release time	Below 10ms
Operation frequency	Mechanical	18 , 000 times/h
	Electrical	12 , 00 times/h
Withstand voltage	Insulation resistance	1000MΩ (500V DC)
	Between the coil and the contact	AC 5000V 1m i n
	Between same pole contacts	AC 1000V 1m i n
Vibration	Error action oscillation	10 ~ 55Hz (double–amplitude 1.5mm)
	Durable oscillation	10 ~ 55Hz (double–amplitude 1.5mm)
Impulse	Error action impulse	98m / s ²
	Durable impulse	980m / s ²
Environment	Surrounding environment temperature	–40℃~70℃
	Surrounding environment humidity	5 % ~ 85%RH
Durability	Mechanical	More than 10 million times
	Electrical (resistive load)	More than 100,000 times
	Weight	Approx.13.5g

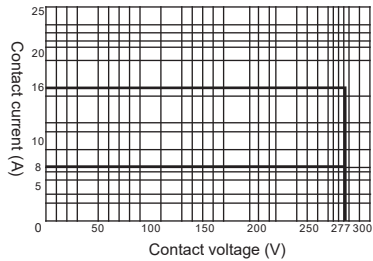
>> Contact rated value

Item \ Load	1C/O		2C/O	
	Resistive load		Resistive load	
Rated load	AC277V	16A	AC277V	8A
Rated current	16A		8A	
Maximum switching power	4000VA		2200VA	
Max.Contact current	16A		8A	
No. of Contact	1C/O		2C/O	
Contact material	Silver alloy			

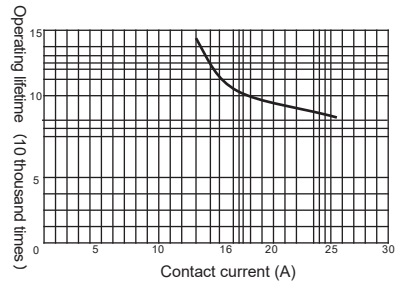
Item \ Type	Action indicator light, diode, RC built–in type	
Environment temperature	–40℃~ + 85℃ ¹⁾	
Environment humidity	5%~85%RH	

1) No ice, no dew

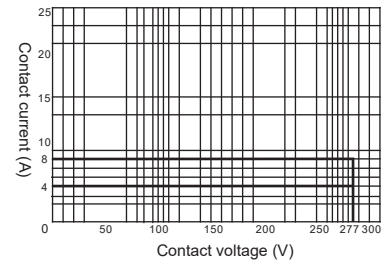
>> Maximum contact switching power (1P)



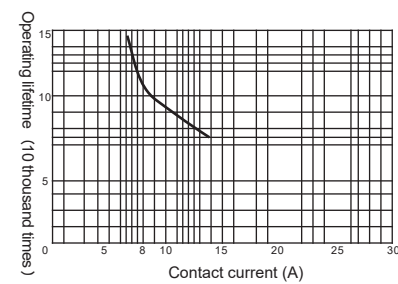
>> Lifetime(1 Form A)



>> Maximum contact switching power (1P)



>> Lifetime(2 Form A)



ARC-P series
Miniature power relay

>> Relay dimension

Model		
ARC–P–1		
ARC–P–1*H		
ARC–P–2*H		

Note:1、Unmarked tolerance: When < 1mm, it is ± 0.2mm, < 1 ~ 5mm is ± 0.3mm, > 5mm is 0.4mm.
2、Installation hole size tolerance: ± 0.1mm.

SRC-P series
Miniature power relay socket

- Suitable for the ARC-P series relays
- Medium withstand voltage: Up to 4000AC
- Insulation resistance 1000MΩ
- With the finger protection function, the protection module is available.
- Wiring: Screw connection, Optional: Push-in; and PCB Welding
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

Model		SRC-P-1M	SRC-P-1S	SRC-P-2M	SRC-P-2S	SRC-P-1P	SRC-P-2P
Rated load	Current	16A		10A		8A	8A
	Voltage	300 VAC				250 VAC	
Medium voltage resistance	Coil/Contact	4000 V/s				5000 V/s	
	the contact space	2500 V/s				2000 V/s	
Screw torque		1.0 N.m				-	
External connection wire		20-14/0.5-2.5AWG/mm ²				-	
Operating environment		-40℃ ~ +85℃					
Weight		38g	38g	38g	38g	3.4g	3.4g

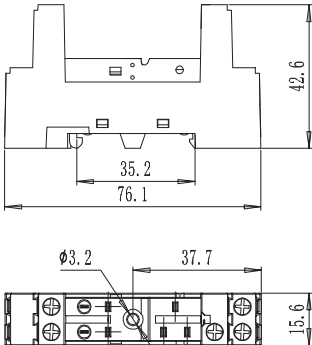
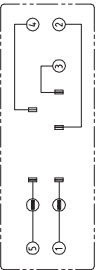
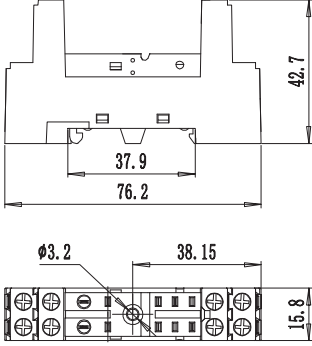
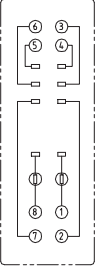
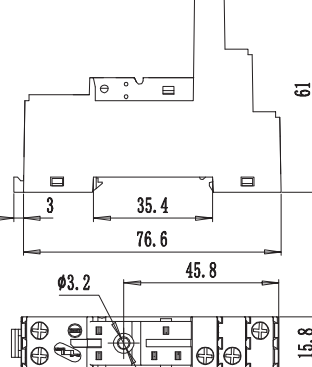
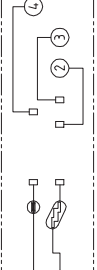
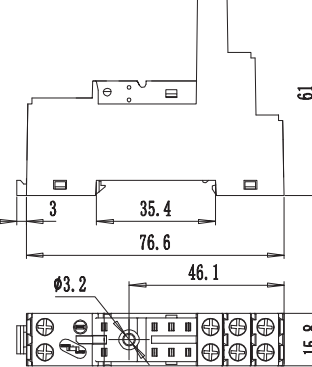
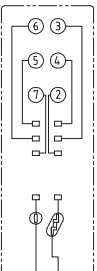
>> Socket and accessories

Relay type	Din rail installation socket		PCB installation socket	
	Socket	Accessories	Socket	Accessories
ARC-P-1	SRC-P-1M	Plastic spring:AR-C-P 2 Signboard:AR -B -1	SRC-P-1P	Stainless steel wire metal spring:AR-C-M5
	SRC-P-1S			
ARC-P-1*H	SRC-P-2M	Protection module: AR-M-***	SRC-P-2P	
ARC-P-2*H	SRC-P-2S			

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.

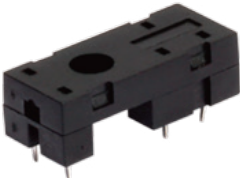
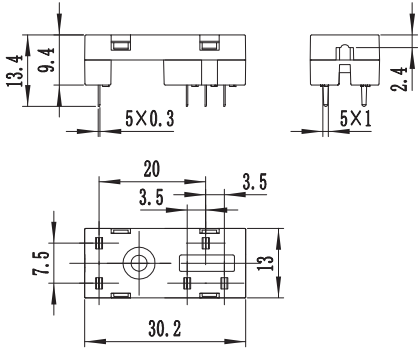
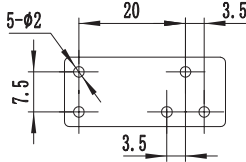
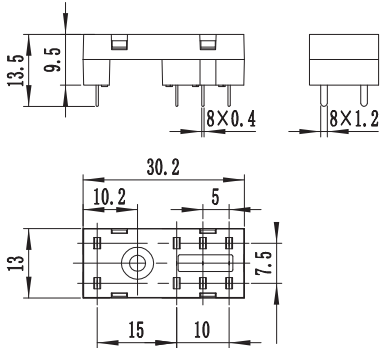
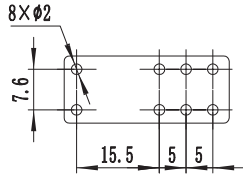
SRC-P series
Miniature power relay socket

>> DIN rail installation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRC-1M 			  
• SRC-2M 			  
• SRC-1S 			  
• SRC-2S 			  

SRC-P series
Miniature power relay socket

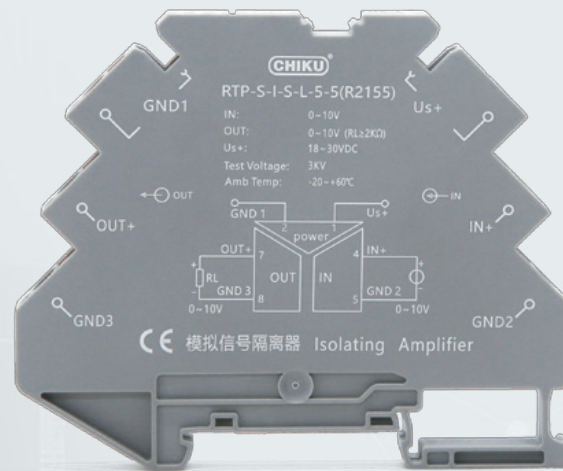
>> PCB installation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRC-P-1P-3.5mm 			 AR -C-M5 Note: there are a variety of height steel clips optional.
• SRC-P-2P-5.0mm 			 AR-C-M5 Note: there are a variety of height steel clips optional.

Note:1、Unmarked tolerance: When < 1mm, it is ±0.2mm, < 1 ~ 5mm is ±0.3mm, > 5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

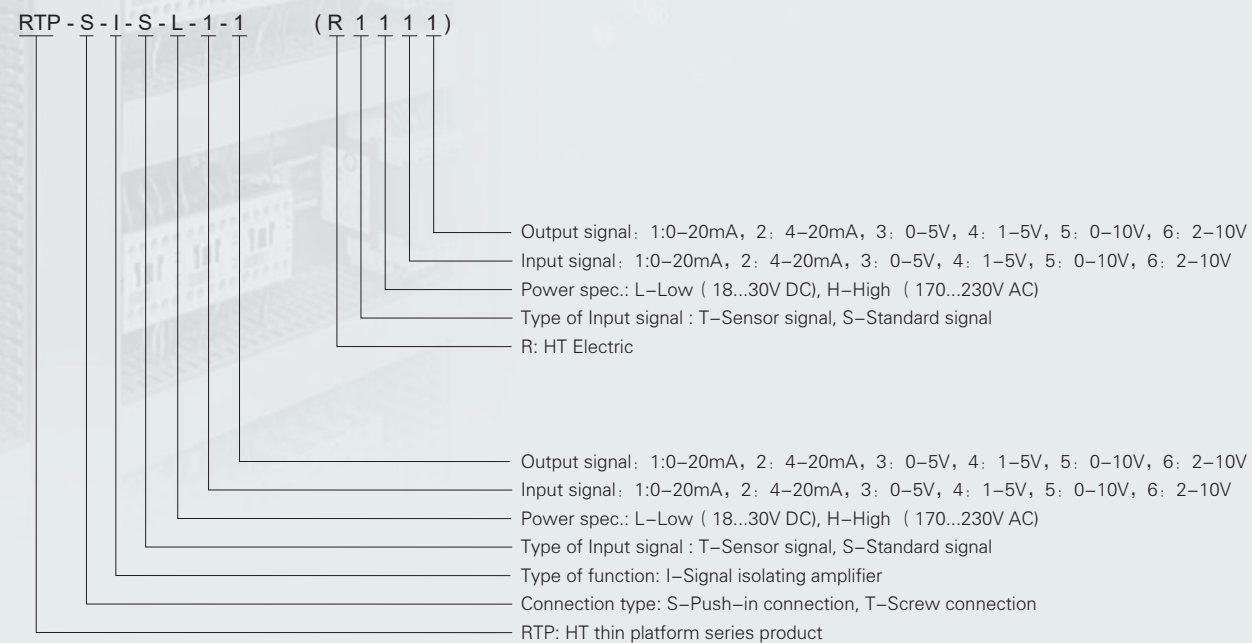
RTP series

Ultrathin signal isolators



- Modular push-in technology spring terminal;
- Isolator among power supply/input/output, max isolation voltage: 3.5kV RMS;
- 6.2mm standard module, saving space;
- Marking stripe: ZB 6;
- Bridge: FBS 10-6
- Standard DIN-35 rail mounting.

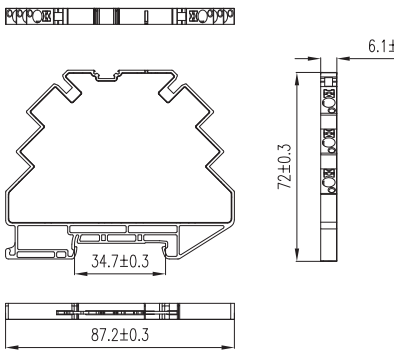
RTP Analog signal isolator naming conventions



* The "width" is the size from the top to the foot of the clamp

RTP-S-I-S-L...

Ultrathin signal isolators

Project	Unit	Parameter
EMC		
SURGE		IEC 61326-1:B grade
EFT/B		IEC 61326-1:A grade
ESD		IEC 61326-1:A grade
General data		
Surrounding air temperature(operation)		-20℃...+60℃
Surrounding air temperature(storage)		-40℃...+85℃
Relative humidity		10%...90% RH
Pollution severity		2
Over voltage category		II
Protection degree		IP20
Material of housing		PA
Color		Gray
Flammability rating		V0 (UL94)
conformity marking		CE
Connection data		
Solid conductor	mm ²	0.14...4.0
Fine-stranded conductor	mm ²	0.34...2.5
Type of connection		Push-in connection
Strip length	mm	9...10
Physical data		
Width	mm	6.2mm
Heigh	mm	87.2mm
Depth (depth from upper-edge of DIN-rail) mm		72mm
 The technical drawing includes three views of the terminal block. The top view shows a rectangular block with a complex, multi-sided top profile. The side view shows the block's height and its mounting on a DIN rail. The detail view shows the internal structure of the terminal block, including the push-in connection mechanism. Dimensions are provided for the width (6.2mm), height (87.2mm), and depth (72mm) of the block. A detail view shows the internal structure of the terminal block, including the push-in connection mechanism. Dimensions are provided for the width (6.2mm), height (87.2mm), and depth (72mm) of the block.		
Install		
Type of install		DIN35 U type standard rail

RTP-S-I-S-L-...
Ultrathin signal isolators

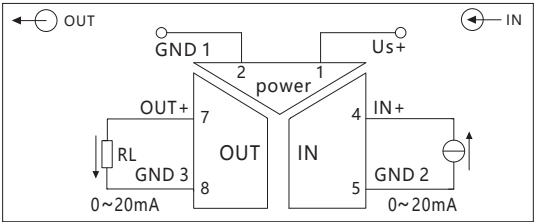


RTP-S-I-S-L-1-1 (R2111)



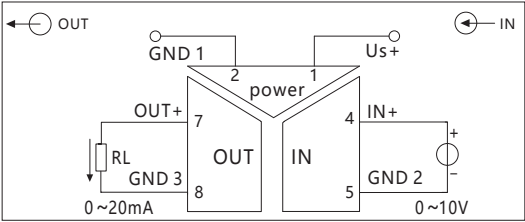
RTP-S-I-S-L-5-1(R2151)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-1-1 (R2111)	RTP-S-I-S-L-5-1(R2151)
Basic data		
Input/output port	One input, One output	One input, One output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)	Accord with IEC 61326–1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 80mA(24V Power supply, 20mAoutput current)	< 80mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1–port	1–port
Input current signal	0...20mA	–
Input impedance	≤ 50Ω	–
Max input current signal	< 35mA	–
Input voltage signal	–	0...10V
Input impedance	–	≥ 90KΩ
Output data		
Output port Qty	1–port	1–port
Output current signal	0...20mA	0...20mA
Max output current signal	26mA	28mA
Current output load resistance	RL< 600Ω	RL< 600Ω



RTP-S-I-S-L-1-1(R2111)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 0...20mA signal and output 0...20mA isolating standard analogue signal , suitable for installation on the DIN35 U type standard rail.



RTP-S-I-S-L-5-1(R2151)

RTP-S-I-S-L-5-1(R2151) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input voltage source 0...10V signal and provided 0...20mA isolating standard analogue signal to output port, suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-...
Ultrathin signal isolators

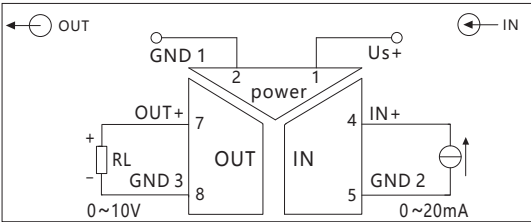


RTP-S-I-S-L-1-5(R2115)



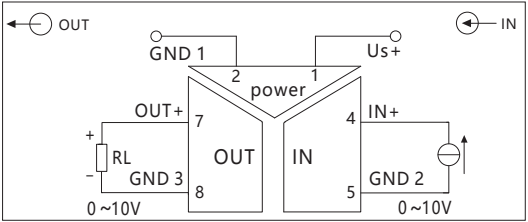
RTP-S-I-S-L-5-5(R2155)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-1-5 (R2115)	RTP-S-I-S-L-5-5 (R2155)
Basic data		
Input/output port	One input , One output	One input, One output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)	Accord with IEC 61326–1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 30mA(24V Power supply, 20mAoutput current)	< 30mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1–port	1–port
Input current signal	0...20mA	–
Input impedance	≤ 50Ω	–
Max input current signal	< 35mA	–
Input voltage signal	–	0...10V
Input impedance	–	≥ 90KΩ
Output data		
Output port Qty	1–port	1–port
Output voltage	0...10V	0...10V
Voltage output load resistance	RL≥ 2KΩ	RL≥ 2KΩ



RTP-S-I-S-L-1-5(R2115)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 0...20mA signal and output 0...10V isolating standard analogue signal , suitable for installation on the DIN35 U type standard rail.



RTP-S-I-S-L-5-5(R2155)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 0...10V signal and output 0...10V isolating standard analogue signal , suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-...
Ultrathin signal isolators

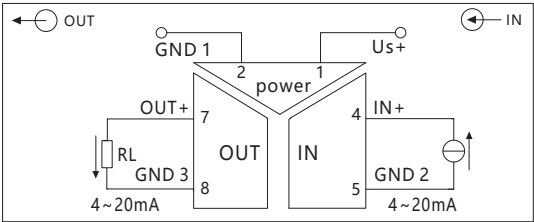


RTP-S-I-S-L-2-2 (R2122)



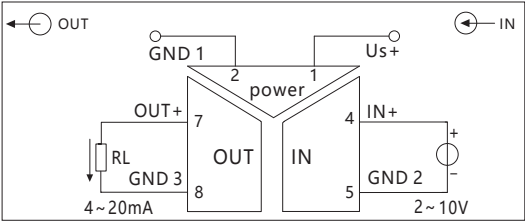
RTP-S-I-S-L-6-2 (R2162)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-2-2 (R2122)	RTP-S-I-S-L-6-2 (R2162)
Basic data		
Input/output port	One input, One output	One input, One output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ; 500V DC(Power supply, Input, Enclosed)	≥ 100MΩ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)	Accord with IEC 61326–1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 80mA(24V Power supply, 20mAoutput current)	< 80mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1–port	1–port
Input current signal	4...20mA	–
Input impedance	≤ 50Ω	–
Max input current signal	< 35mA	–
Input voltage signal		2...10V
Input impedance		≥ 90KΩ
Output data		
Output port Qty	1–port	1–port
Output current signal	4...20mA	4...20mA
Max output current signal	26mA	≤ 28mA
Current output load resistance	RL< 600Ω	RL< 600Ω



RTP-S-I-S-L-2-2(R2122)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 4...20mA signal and output 4...20mA isolating standard analogue signal , suitable for installation on the DIN35 U type standard rail.



RTP-S-I-S-L-6-2(R2162)

RTP-S-I-S-L-6-2(R2162) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input voltage source 2...10V signal and provided 4...20mA isolating standard analogue signal to output port, suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-...
Ultrathin signal isolators

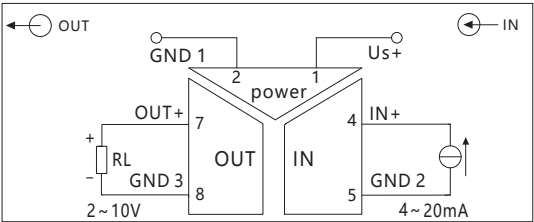


RTP-S-I-S-L-2-6(R2126)



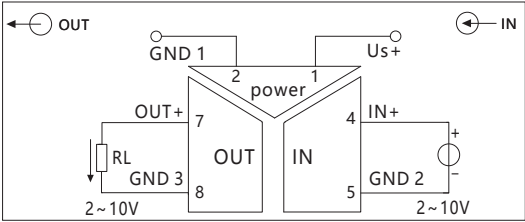
RTP-S-I-S-L-6-6 (R2166)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-1-5 (R2115)	RTP-S-I-S-L-5-5 (R2155)
Basic data		
Input/output port	One input, One output	One input, One output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)	3kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ; 500V DC(Power supply, Input, Enclosed)	≥ 100MΩ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)	Accord with IEC 61326–1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 30mA(24V Power supply, 20mAoutput current)	< 30mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1–port	1–port
Input current signal	4...20mA	–
Input impedance	≤ 50Ω	–
Max input current signal	< 35mA	–
Input voltage signal		2...10V
Input impedance		≥ 90KΩ
Output data		
Output port Qty	1–port	1–port
Output voltage	2...10V	2...10V
Voltage output load resistance	RL≥ 2KΩ	RL≥ 2KΩ



RTP-S-I-S-L-2-6(R2126)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 4...20mA signal and output 2...10V isolating standard analogue signal , suitable for installation on the DIN35 U type standard rail.

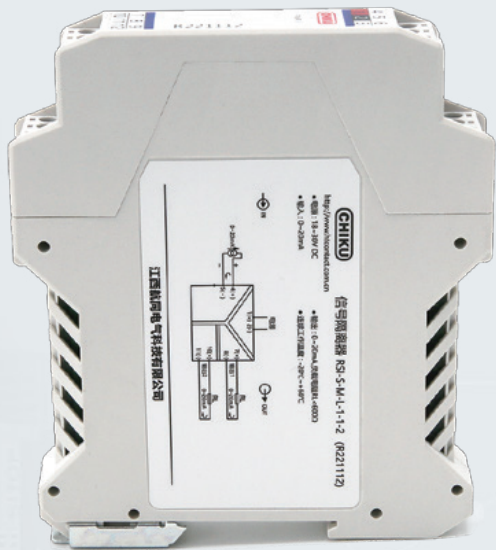


RTP-S-I-S-L-6-6(R2166)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 2...10V signal and output 2...10V isolating standard analogue signal , suitable for installation on the DIN35 U type standard rail.

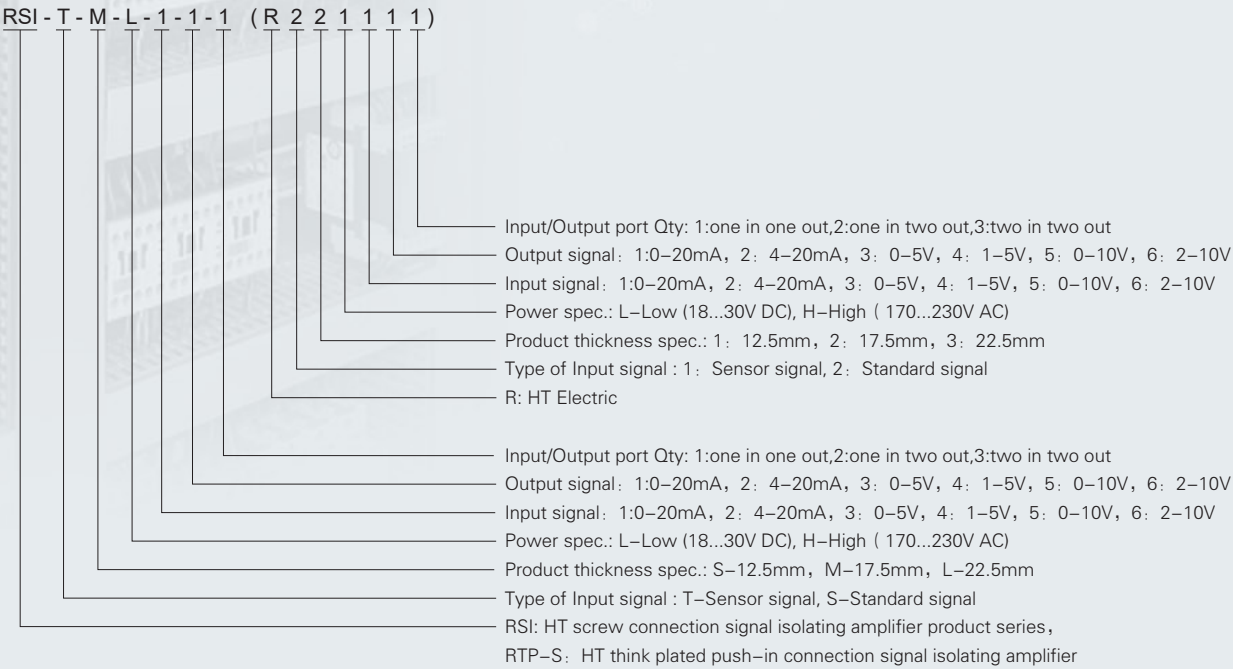
RSI series

Signal isolators



- Modular screw terminal blocks with same appearance;
- Input (control) voltage specifications (24V DC), suitable for industrial applications;
- Equipped with indicator light;
- Electrical isolation between the power supply/input/output, with an isolation voltage up to 5KV RMS;
- Suitable for standard DIN–35 rail.

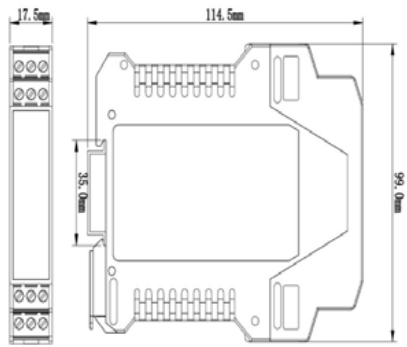
RSI Analog signal isolator naming conventions



RSI-...M-L-...

Signal isolators

Project	Unit	Parameter
EMC		
SURGE		IEC 61326–1:B grade
EFT/B		IEC 61326–1:A grade
ESD		IEC 61326–1:A grade
General data		
Surrounding air temperature(operation)		–20℃...+60℃
Surrounding air temperature(storage)		–40℃...+85℃
Relative humidity		10%...90% RH
Pollution severity		2
Over voltage category		II
Protection degree		IP20
Material of housing		PA
Color		White
Flammability rating		V0 (UL94)
conformity marking		CE
Connection data		
Solid conductor	mm ²	0.5...2.5(12...24AWG)
Fine–stranded conductor	mm ²	0.5...2.5(12...24AWG)
Type of connection		M3 Screw connection
Strip length	mm	9...10 mm
Physical data		
Width	mm	17.5mm
Heigh	mm	99.0mm
Depth (depth from upper–edge of DIN–rail) mm		114.5mm
Install		
Type of install		DIN35 U type standard rail

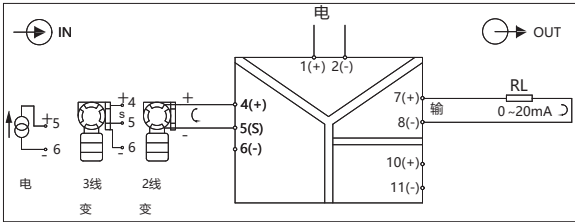


RSI-T-M-L-1-1-...
Signal isolators



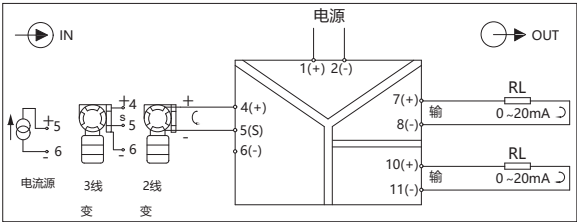
RSI-T-M-L-1-1-1(R121111) RSI -T-M-L-1-1-2 (R121112)

Description	Product type	Product type
RTP Signal Isolators	RSI-T-M-L-1-1-1(R121111)	RSI -T-M-L-1-1-2 (R121112)
Basic data		
Input/output port	One input, One output	One input ,two output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	1.5kVrms AC(50 Hz,1min) (Power supply, Input, Output)	1.5kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)	Accord with IEC 61326–1(GB/T 18268)
Weight	97.5g	97.5g
Connection device	Sensor,Current source	Sensor,Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 120mA(24V Power supply, 20mAoutput current)	< 120mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1–port	1–port
Input current signal	0...20mA	0...20mA
Input impedance	≤ 50Ω	≤ 50Ω
Max input current signal	< 35mA	< 35mA
Output data		
Output port Qty	1–port	2–port
Output current signal	0...20mA	0...20mA
Max output current signal	26mA	26mA
Current output load resistance	RL< 600Ω	RL< 600Ω



RSI-T-M-L-1-1-1(R121111)

RSI-T-M-L-1-1-1(R121111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input sensor's 0...20mA signal and output 0...20mA isolating standard analogue signal, suitable for installation on the DIN35 U type standard rail.



RSI-T-M-L-1-1-2(R121112)

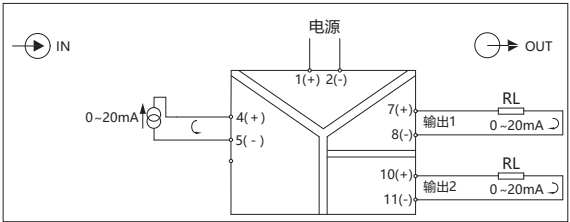
RSI-T-M-L-1-1-2(R121112) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input sensor's 0...20mA signal and output 0...20mA isolating standard analogue signal, suitable for installation on the DIN35 U type standard rail.

RSI-S-M-L-1-1-...
Signal isolators



RSI-S-M-L-1-1-2(R221112)

Description	Product type
RTP Signal Isolators	RSI-S-M-L-1-1-1(R121112)
Basic data	
Input/output port	One input, One output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%
Dielectric strength	1.5kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)
Weight	97.5g
Connection device	Sensor,Current source
Power supply	
Power supply voltage	24V DC
Power supply voltage range	18...30V DC
Consume current	< 120mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply
Power protection	Reverse direction protection
Status indicator	Green LED
Input data	
Input port Qty	1–port
Input current signal	0...20mA
Input impedance	≤ 50Ω
Max input current signal	< 35mA
Output data	
Output port Qty	2–port
Output current signal	0...20mA
Max output current signal	26mA
Current output load resistance	RL< 600Ω



RSI-S-M-L-1-1-2 (R221112)

RSI-S-M-L-1-1-2(R221112) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input current source 0...20mA signal and output 0...20mA isolating standard analogue signal, suitable for installation on the DIN35 U type standard rail.

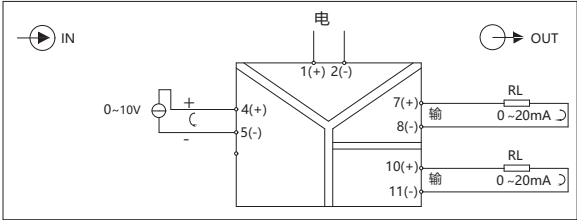
RSI-S-M-L-5-1-...

Signal isolators



RSI-S-M-L-5-1-2(R221512)

Description	Product type
RTP Signal Isolators	RSI-S-M-L-5-1-2(R121512)
Basic data	
Input/output port	One input, One output
Output accuracy (20℃)	0.1%F.S.(Typical value: 0.05%F.S)
Temperature drift	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%
Dielectric strength	1.5kVrms AC(50 Hz,1min) (Power supply, Input, Output)
Insulation resistance	≥ 100MΩ; 500V DC(Power supply, Input, Enclosed)
EMC	Accord with IEC 61326–1(GB/T 18268)
Weight	97.5g
Connection device	Sensor,Current source
Power supply	
Power supply voltage	24V DC
Power supply voltage range	18...30V DC
Consume current	< 120mA(24V Power supply, 20mAoutput current)
Power supply mode	Terminal independence power supply
Power protection	Reverse direction protection
Status indicator	Green LED
Input data	
Input port Qty	1–port
Input voltage signal	0...10V
Input impedance	≥ 90KΩ
Output data	
Output port Qty	2–port
Output current signal	0...20mA
Max output current signal	28mA
Current output load resistance	RL< 600Ω



RSI-S-M-L-5-1-2 (R221512)

RSI-S-M-L-5-1-2(R221512) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input voltage source 0...10V signal and provided 0...20mA isolating standard analogue signal to output port, suitable for installation on the DIN35 U type standard rail.

AR-M-LR...
Annex

>> Protection module

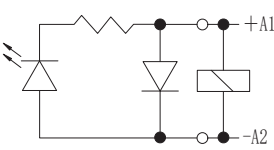
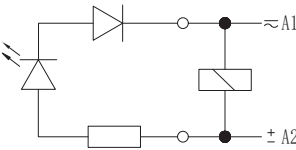
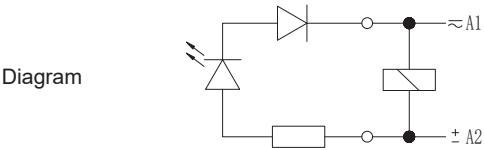


Description	AR-M-LRD1	AR-M-LRD2	AR-M-LRB1
Built-in components	LED+R+D	LED+R+D	LED+D*2
Applied voltage	6-24VAC/DC	110-240VAC/DC	6-24VAC/DC

Applied socket S type and M type

S type and M type

S type and M type

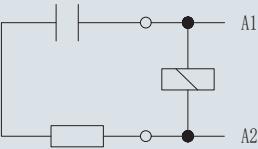
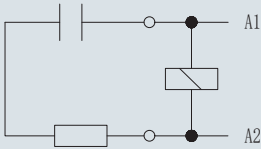
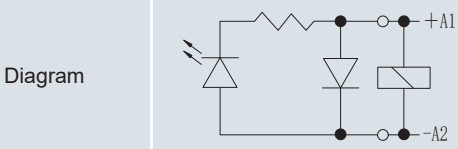


Description	AR-M-LRB2	AR-M-RC1	AR-M-RC2
Built-in components	LED+D*2	R+C	LED+R+D
Applied voltage	110-240VAC/DC	6-24VAC	110-240VAC

Applied socket S type and M type

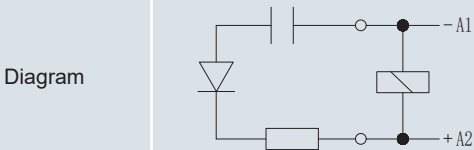
S type and M type

S type and M type



Description	AR-M-D		
Built-in components	LED+R+D		
Applied voltage	110-240VAC/DC		

Applied socket S type and M type



Annex

>> Clamp spring



Description	AR-C-M1	AR-C-M2	AR-C-M3	AR-C-M4
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Material Metal leaf spring Metal wire spring Metal wire spring Metal leaf spring

Applied socket	SRM-2E SRM-4E SRL-2E SRL-3E SRL-4E	SRM-2M SRM-4M SRM-2S SRM-4S	SRM-2P SRM-4P SRL-2P SRL-3P SRL-4P	SRL-3E SRL-4E
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>> Clamp spring



Description	AR-C-M5	AR-C-P1	AR-C-P2	AR-C-P3
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Material Metal wire spring Plastic spring (Height 34–36mm) Plastic spring (Height 15–16mm) Plastic spring

Applied socket	SRC-1P SRC-2P	SRM-2M SRM-4M SRM-2S SRM-4S SRM-2SP、SRM-4SP SRL-2SP	SRC-1S SRC-2S	SRJ-1E SRJ-2E
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Annex

>> Bridge

				
Description	AR-B-1	AR-B-2	ZB6	
Material	Plastic	Plastic	Plastic	
Applied socket	SRJ-1S SRJ-2S SRJ-1SP SRJ-2SP SRC-1S SRC-2S	SRM-2M SRM-4M SRM-2S SRM-4S	RTP-...系列底座	

>> Bridge

				
Description	FBST 2-6	FBS10-6	AR-Q-2	AR-Q-3
Material	metal+plastic	metal+plastic	metal+plastic	metal+plastic
Applied socket	For RTP-T-...	For RTP-S-...	SRJ-1E SRJ-2E	SRJ-1S SRJ-2S SRC-1M SRC-2M

>> Bridge

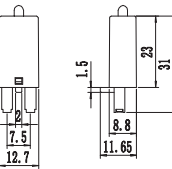
				
Description	AR-Q-4	AR-Q-5	AR-Q-6	
Material	metal+plastic	metal+plastic	metal+plastic	
Applied socket	SRM-2E SRL-2E	SRM-4E	SRM-2M SRM-4M SRM-2S SRM-4S	

Dimension

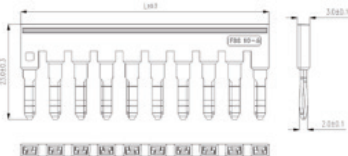
Protection module+bridge

Dimension(mm)

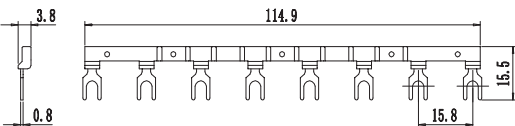
Protection module



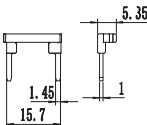
FBS10-6



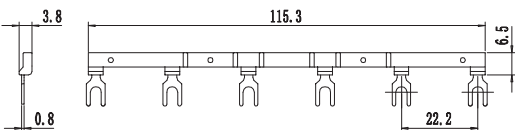
AR-Q-2



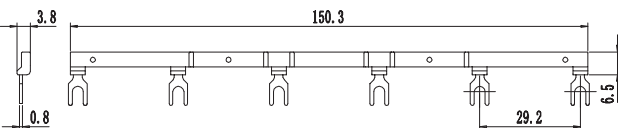
AR-Q-3



AR-Q-4



AR-Q-5



AR-Q-6

