



Principle structure

The platinum resistance temperature sensing element is used for temperature measurement, and the signal is converted into a standard industrial electrical signal after processing by a post-processing circuit and displayed. Designed with an integrated injection molded housing, this series of products can be used in a variety of industrial applications. Key setting, easy operation, high-light LED can digitally display real-time measurement values. A variety of connection methods can fully meet a variety of specific installation needs.

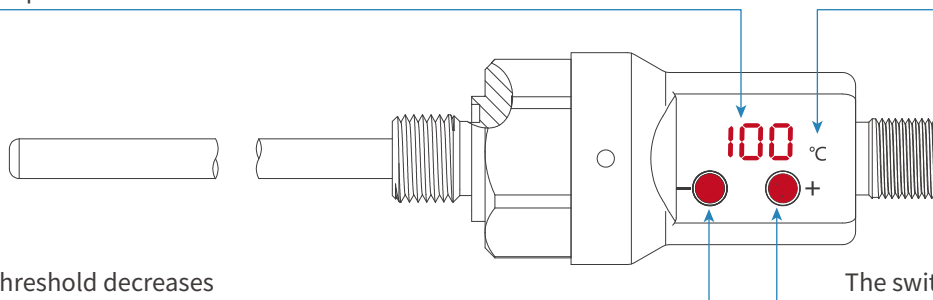
Technical parameter

◇ Supply voltage: 12... 30Vdc	◇ Stability (annual drift) : $\leq \pm 0.3\%$ range
◇ No-load current consumption: maximum 30mA, 24Vdc power supply	◇ Temperature:
◇ Output type: PNP/NPN can be set, normally open/normally closed can be set,	Medium temperature: -200... 250 °C
Switch output current: <200mA	Ambient temperature: -20... 80°C
Response time: <10ms	Storage temperature: -30... 80°C
Switching accuracy: $\leq \pm 0.5\%$ range	◇ Material:
◇ Switch setting mode: button increase/decrease	Medium contact part: stainless steel 304
◇ Switch point return difference: factory default return difference is 0.5% of the set value of the switch (configurable)	Housing: engineering plastic
◇ Connection protection: reverse phase, overload, paragraph protection	◇ Protection grade: IP67
◇ Accuracy: $\leq \pm 1^\circ\text{C}$	◇ Outlet: M12x1 connector

Panel diagram

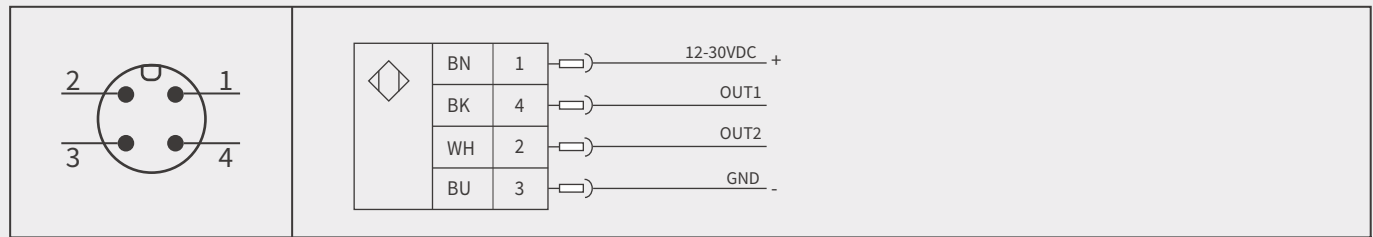
Real-time temperature value

Temperature unit



At the same time, press the Reduce key or the Increase key to enter the secondary menu

Wiring diagram



switch/frequency					
color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	SP1 Switch PNP (Factory default) SP1 Switch NPN Frequency (full scale 100Hz)	WH	2 (OUT2)	/

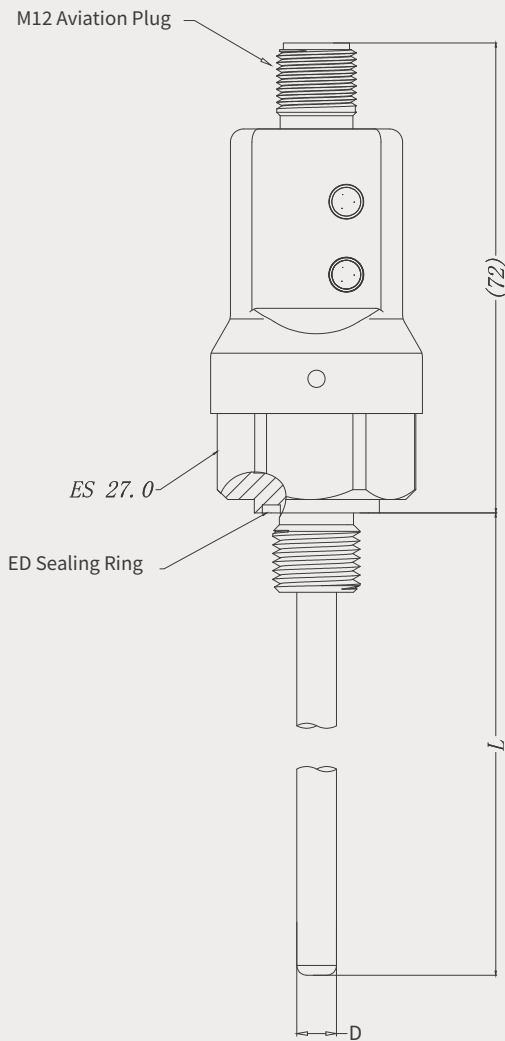
Analog output: 4-20mA					
color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	4-20mA	WH	2 (OUT2)	/

Analog output: 1-5V					
color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	1-5V	WH	2 (OUT2)	/

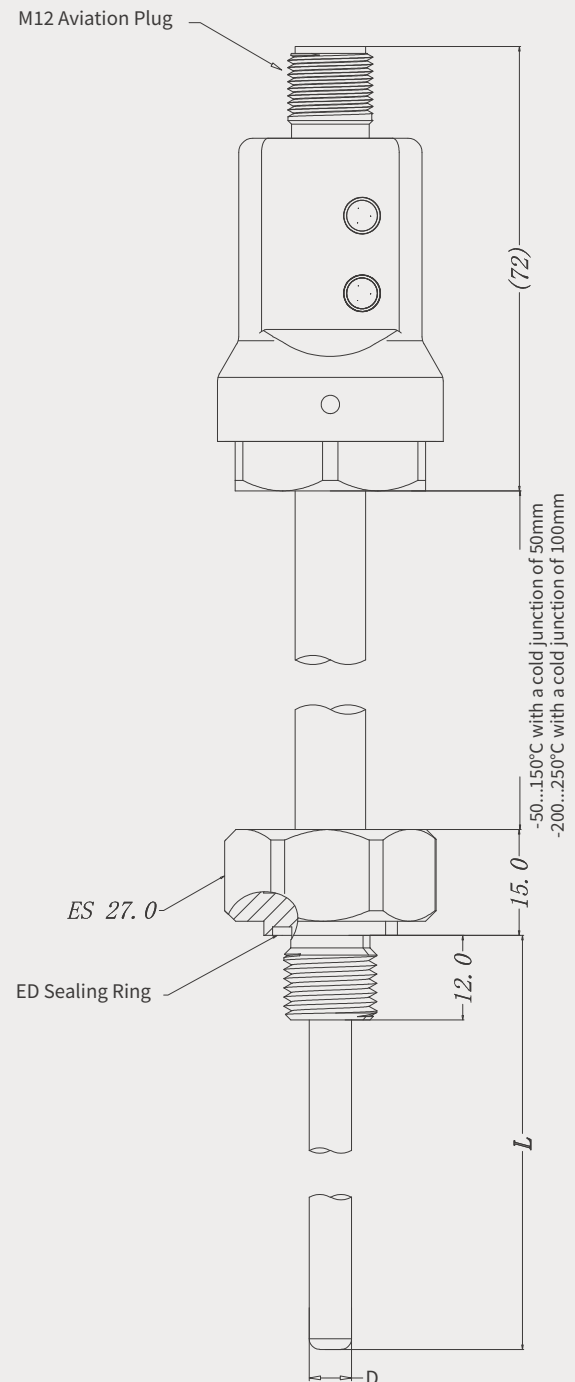
RS485					
color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	RS485(B)	WH	2 (OUT2)	RS485(A)

Dimension drawing (mm)

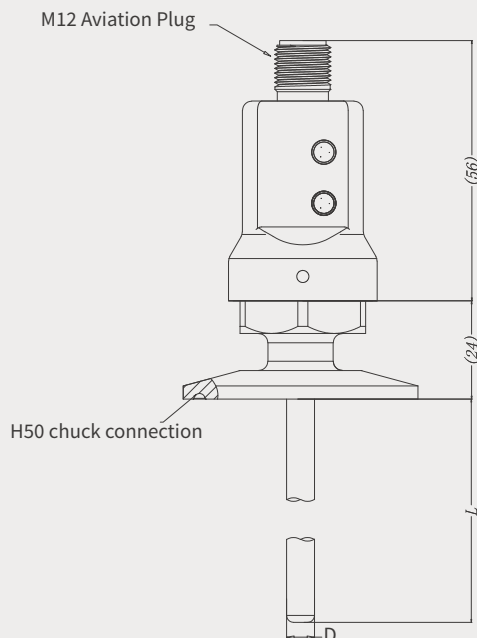
standard type



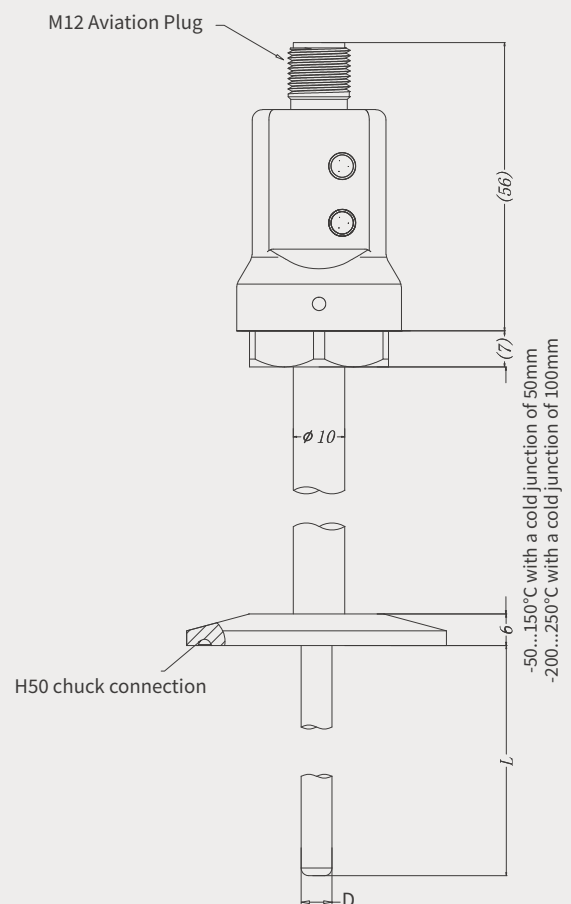
High low temperature type



Chuck type connection



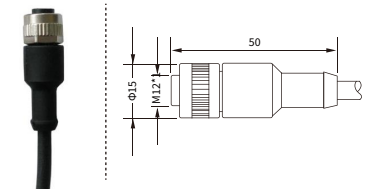
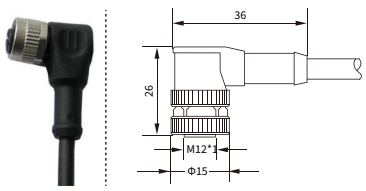
Chuck type connecting high and low temperature type

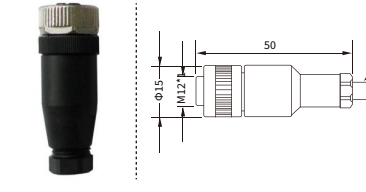
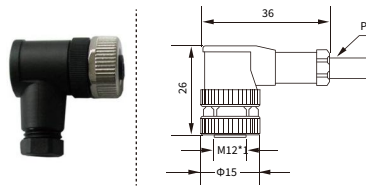


Selection list

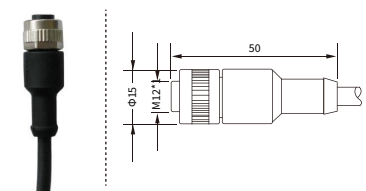
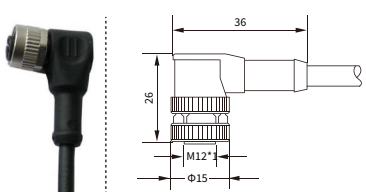
TS200-	C20100	D6	L25	G14M	-	expatiate
TS200-						TS200 Electronic Temperature Switch (Sensor)
	C0100					Range: 0...100°C
	C2080					Range: -20...80°C
	C20100					Range: -20... 100 °C
	C50150					Range: -50... 150 °C
	C200250					Range: -200... 250 °C
		D6				The probe diameter is 6
		D8				The probe diameter is 8
			L25			Probe length: L= 25mm with thread
			L50			Probe length: including thread L= 50mm
			L75			Probe length: including thread L= 75mm
			L100			Probe length: including thread L= 100mm
			--			L = XXXmm: Probe length can be customized
				G14M		Process connection: G1/4 external thread
				G12M		Process connection: G1/2 external thread
				H50		Process connection: Sanitary chuck 50.5
					-	Output signal: switch/frequency(3-core cable)
					A	Output signal: analog 4-20mA(3-core cable)
					V	Output signal: analog 1-5V(3-core cable)
					RS	Output signal: RS485(4-core cable)

Factory standard:ZL03-PC02G

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-4Pin (2m cable)		PUR	ZL03-PU02G
M12*1-4Pin (5m cable)			ZL03-PU05G
M12*1-4Pin (10m cable)			ZL03-PU010G
M12*1-4Pin (2m cable)		PVC	ZL03-PC02G
M12*1-4Pin (5m cable)			ZL03-PC05G
M12*1-4Pin (10m cable)			ZL03-PC010G

M12* 1-4pin self-connector/size drawing (mm)	model
	GL04 (4Pin joint)
	WL04 (4Pin joint)

Factory standard:ZL04-PC02G

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-4Pin (2m cable)		PUR	ZL04-PU02G
M12*1-4Pin (5m cable)			ZL04-PU05G
M12*1-4Pin (10m cable)			ZL04-PU010G
M12*1-4Pin (2m cable)		PVC	ZL04-PC02G
M12*1-4Pin (5m cable)			ZL04-PC05G
M12*1-4Pin (10m cable)			ZL04-PC010G