

WPR SERIES WIRE DISPLACEMENT TRANSDUCER

FEATURES

- ◎ Stroke range from 10mm to 100,000mm, customized
- ◎ High stability, precision, and a service life of up to 5 million cycles
- ◎ Allowable deviation of $\pm 3^\circ$, with lateral deviation not exceeding 35mm per 1000mm
- ◎ Linear accuracy up to 0.05%-0.08%
- ◎ IP65 protection rating



INTRODUCTION

The WPR series Wire Displacement Transducer/ sensor offers a highly flexible solution for measuring linear displacement, with a customizable stroke range from 10mm to 100,000mm. Designed for precision and durability, it provides excellent stability and high accuracy with long service life. The WPR series is ideal for applications requiring reliable and precise displacement measurement. Additionally, it features an IP65 protection rating, ensuring optimal performance in challenging environments.

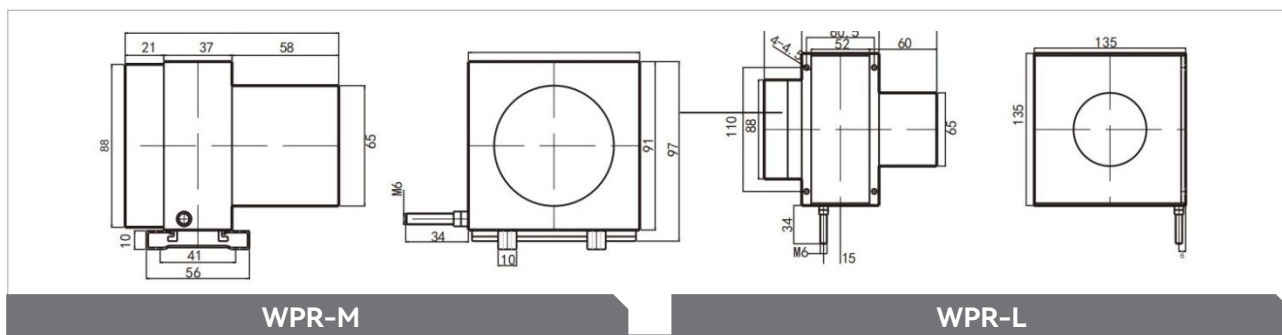
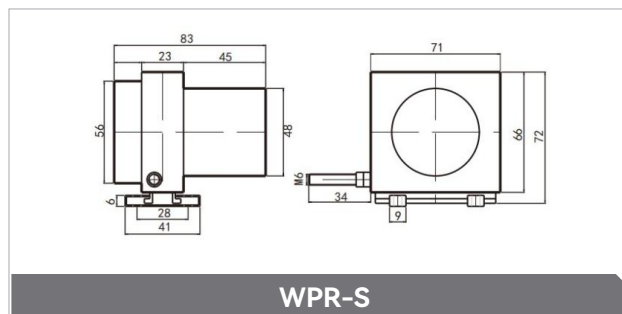
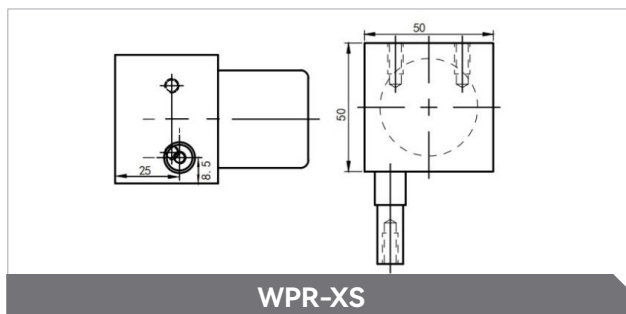
SPECIFICATIONS

Measuring stroke	10mm to 100,000mm
Linearity	0.3%, 0.25% or 0.1%
Output	Resistance, 0-10V or 4-20mA or Pulse ABZ Quadrature Digital Output
Power supply	13-30V
Housing material	Aluminum alloy / metal
Electrical connection	Cable leads 1 meter
Protection	IP65
Operating temperature	-40°C /+80°C

TECHNICAL DATA

Size	Max Stroke (mm)	Output	Power supply	Linear accuracy	Repeated accuracy	Traction	Wire diameter
XXL	≥ 50,000	Customized		±0.001-0.06%	0.001%	800±100g	1.0-1.2mm
XL	30,000	0~5KΩ/0~10KΩ	10-24V	±0.05%-0.08%	0.005% -0.01%	800±100g	0.8mm
		0~5V/0~10V	24V	±0.05%-0.08%			
		4~20mA		±0.05%-0.15%			
		Pulse	8~30V	±0.05%-0.06%			
L	16,000	0~5KΩ/0~10KΩ	10-24V	±0.05%-0.08%	0.005% -0.01%	650±70g	0.8mm
		0~5V/0~10V	24V	±0.05%-0.08%			
		4~20mA		±0.05%-0.15%			
	17,000	Pulse	8~30V	±0.05%-0.06%	0.0005%		
M	6,000	0~5KΩ/0~10KΩ	10-24V	±0.05%-0.08%	0.005% -0.01%	500±50g	0.68mm
		0~5V/0~10V	24V	±0.05%-0.08%			
		4~20mA		±0.05%-0.15%			
		Pulse	8~30V	±0.05%-0.06%			
S	2,500	0~5KΩ/0~10KΩ	10-24V	±0.05%-0.08%	0.005% -0.01%	350±35g	0.68mm
		0~5V/0~10V	24V	±0.05%-0.08%			
		4~20mA		±0.05%-0.15%			
		Pulse	8~30V	±0.05%-0.06%	0.002%		
XS	1,000	0~5KΩ/0~10KΩ	10-24V	±0.05%-0.08%	0.005% -0.01%	250±25g	0.65mm
		0~5V/0~10V	24V	±0.05%-0.08%			
		4~20mA		±0.05%-0.15%			
		Pulse	8~30V	±0.05%-0.06%	0.0005%		

MECHANICAL DIMENSION



ORDER FORMAT

WPR - M - 5K - C2

Size	Code
XS	XS
S	S
M	M
L	L
XL	XL
XXL	XXL

Stroke	Code
10mm	10
50mm	50
...	...
60,000mm	60K
100,000mm	100K

Cable length	Code
Resistance	R
4~20mA	C2
0~10V	V1
0~5V	V2
Pulse AB/ABZ	P

Example: WPR-M-5K-C2, WPR series, M size with 5000mm stroke, 4~20mA output.