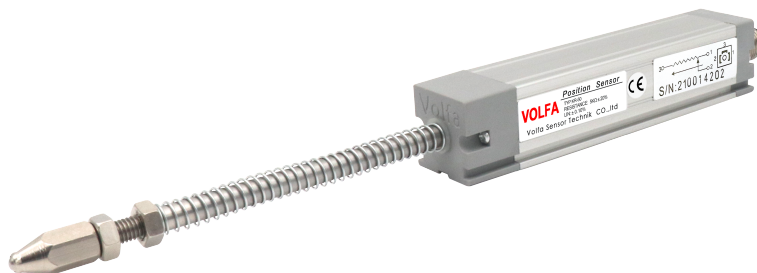


KR Series

Linear Position Sensor



Feature:

- High resolution and excellent performance
- Ejector rod automatic reset, spring external
- Two bracket installation, generous appearance
- Strong temperature stability, built-in conversion module
- Output signal can be: potentiometer, 0-10/5VDC, 4-20mA, RS485

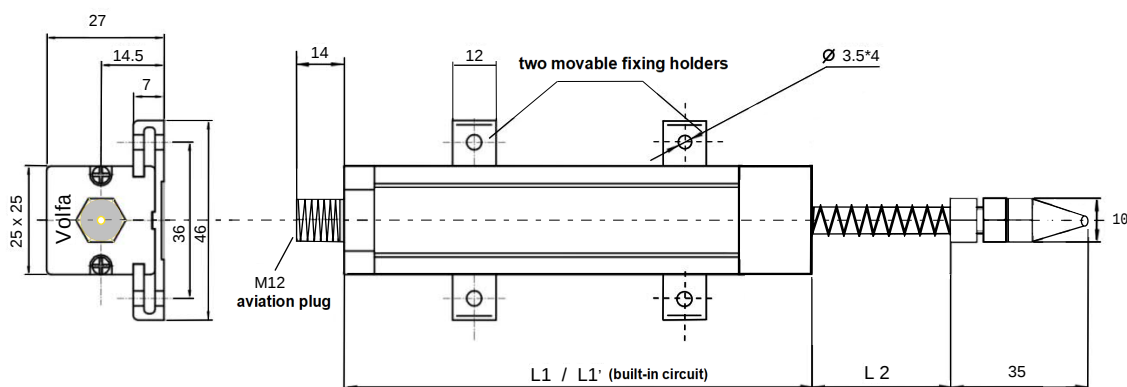
Details:

- Outer shell aluminum alloy, surface oxidation treatment
- Top rod stainless steel, copper steel ball probe hexagon nut fixed
- Bearing flexible wide copper bushing
- High precision conductive plastics for resistance components
- Sliding brush assembly multi-pin six-element alloy sliding brush, anti-radial offset design of the ejector rod • Electrical connection 4-pin M12 round aviation plug

Usage:

- Injection molding machine, extraction machine
- Experimental equipment, platform, building surface deformation monitoring
- Sluice control, woodworking machinery, hydraulic machinery, etc

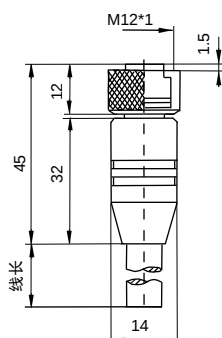
Dimensions:



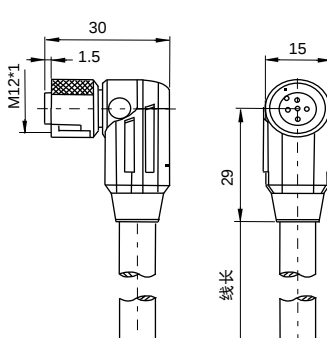
accessary size:

Aviation round plug

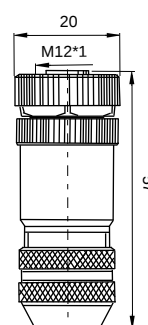
K4P*M-S-M12



K4P*M-SW-M12



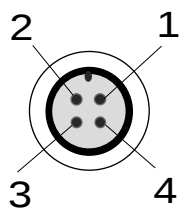
EEM33 - 88 - N



Parameters:

Parameter	unit	Details							
Range (A)	mm	10	15	25	50	75	100	150	200
Mechanical range (+/-2.0)	mm	18	23	33	58	83	108	158	208
Electrical range	mm	A + 1.5							
housing length (potentiometer L1)	mm	78	83	93	118	143	168	217	267
test rod length (L2)	mm	35	50	61	85	111	136	210	261
Built-in circuit integration (L1')	mm	L1 + 50							
Standard resistance	K Ω	default 5 1, 2, 3, 10 optional							
Resistance tolarence	± %	15							
Linearity	± %	0.1					0.05		
Repeatability	mm	0.01							
wiper working current	uA	<1							
Drive force (horizontal direction)	N	< 2							
Output signal type		potentiometer、 (0-5)V DC、 (0-10)V DC、 (4-20)mA、 RS485 (Modbus RTU)							
Working temperature	℃	resistance output: -45 - 125, analog: -10 - 80							
anti-vibration frequency	Hz	5...2000							
amplitude	mm	Max= 1.5							
acceleration	g	aMax= 15							
anti-shock time	ms	11							
force	g	50							
Working life	time	> 20 x 10 ⁶							
Protection Class		IP 54 (DIN EN 60529)							
Permissible working voltage Max	V	resistance signal: 42,				analog signal: 18 - 30			
Output & input voltage temperature coefficient	ppm/k	30 in general							
insulation resistance	M Ω	>100 (500VDC)							
insulation strength	uA	<100 (500VAC , 50Hz)							

wirings:



PIN no.	K4P series connector (orange) no shielding	EEM33-88 -N + Grey shielding cable	Output 4-20mA	Output 0-10V	Serial Output RS485	Resistance Output
1	brown	brown	Signal+	24V	5V	5V/10V
2	white	green	24V	Signal+	Power ground	Signal+
3	blue	white		Signal-&GND	485+	Signal-&GND
4	black	yellow			485-	

instructions:

KR	-	XXX	-	XX
series		range		output signal
		10 = 10 mm		no: potentiometer output
		15 = 15 mm		A1: 4 - 20 mA two-wire system
		25 = 25 mm		V1: 0 - 10 V three-wire system
		50 = 50 mm		V2: 0 - 5 V three-wire system
		75 = 75 mm		R5: RS485 Modbus RTU
		...		
		200 = 200 mm		

Matching cable:

4x0.14mm² PVC cable with 4 hole M12x1 straight connector

2m cable, type: K4P2M-S-M12
 5m cable, type: K4P5M-S-M12
 10m cable, type: K4P10M-S-M12

4x0.14mm² PVC cable with 4hole M12x1 angle connector

2m cable, type: K4P2M-SW-M12
 5m cable, type: K4P5M-SW-M12
 10m cable, type: K4P10M-SW-M12

4 hole straight Aviation plug

type: EEM33-88-N

