

KDW Series

Linear Position Sensor



Feature:

- High resolution and excellent performance
- Pull rod can be freely rotated design, easy connection
- Two bracket installation, generous appearance
- Strong temperature stability, built-in conversion module
- Output signal can be: potentiometer, 0-10/5VDC, 4-20mA, RS485

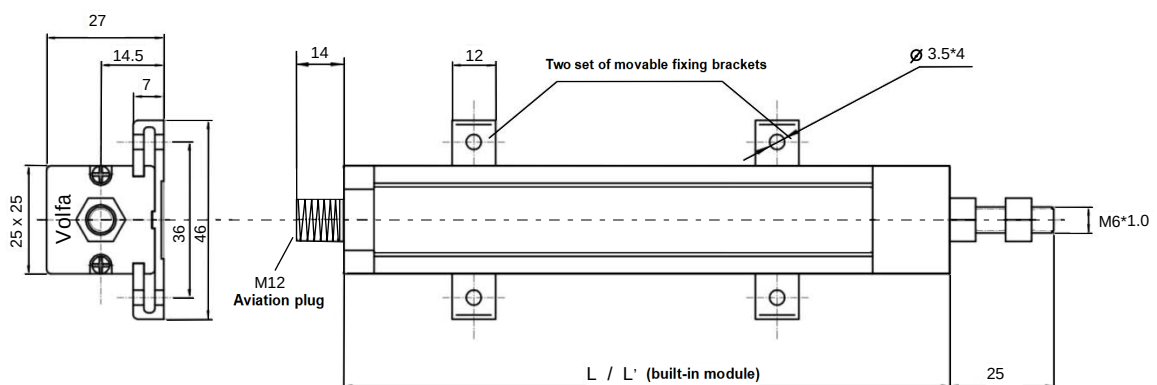
Details:

- Outer shell aluminum alloy, surface oxidation treatment
- Pull rod stainless steel, rod tip external thread M6x1.0
- Bearing flexible wide copper bushing
- High precision conductive plastics for resistance components
- Sliding brush component multi-contact six-element alloy sliding brush, prevent rod radial deviation
- Electrical connection 4-pin M12 round aviation plug

Usage:

- Injection molding machine, extraction machine
- Experimental equipment, location life test
- Sluice control, woodworking machinery, hydraulic machinery, etc

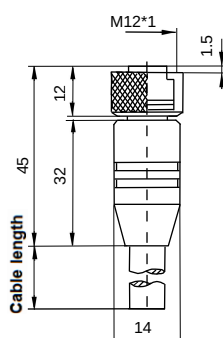
Dimensions:



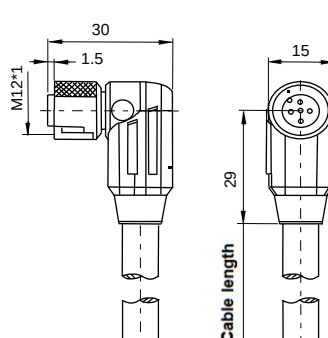
accessory size:

- round aviation plug

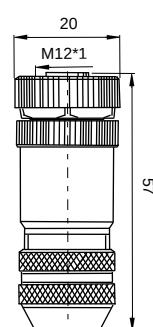
K4P*M-S-M12



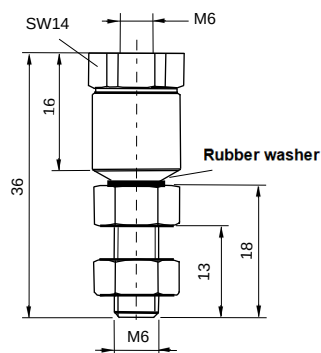
K4P*M-SW-M12



EEM33 - 88 - N



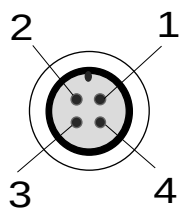
- Connecting rod ball and socket universal joint



Parameters:

Parameter	unit	Details										
Rated range (A)	mm	10	15	25	50	75	100	150	200	250	300	
Mechanical range(+/-2.0)	mm	18	23	33	58	83	108	158	208	258	308	
Electrical range	mm	A + 1.5										
Housing length (resistance L)	mm	78	80	90	115	140	165	215	265	315	365	
(Built-in module integrated L')	mm	L + 50										
Standard resistance	K Ω d	fault 5 1,2,3,10 optional										
Resistance tolerance	± %	15										
Linearity	± % . F . S	0.1						0.05				
Repeatability	mm	0.01										
wiper working current	uA	<1										
Drive force (horizontal)	N	below 2										
Output signal type		resistance、(0-5)V DC、(0-10)V DC、(4-20)mA、RS485 (Modbus RTU)										
Working temperature	℃	resistance signal: -45 - 125, analog signal: -10 - 80										
antivibration frequency	Hz	5...2000										
amplitude	mm	Max= 1.5										
acceleration	g	aMax= 15										
antishock time	ms	11										
forece	g	50										
Working life	ime	> 20 x 10 ⁶										
Proteciton class		IP 54 (DIN EN 60529)										
Permissable work voltage Max	V	resistance signal: 42, analog signal: 18 - 30										
Input and output voltage effective 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:

KDW	-	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
		...		
		300 = 300 mm		

Matching cable:

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

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

4 holes straight aviation plug

型号: EEM33-88-N

