

PS6300

Linear sensor 50-1000 mm



The PS6300 is the third generation position sensor designed for compact incorporation in cylinder applications. It is the most advanced potentiometer type of position sensor available and has been developed to meet the ever-increasing demands for performance, precision and economy. Almost 40 years of experience of producing industrial and military potentiometers ensure excellent quality and reliability of our sensors.

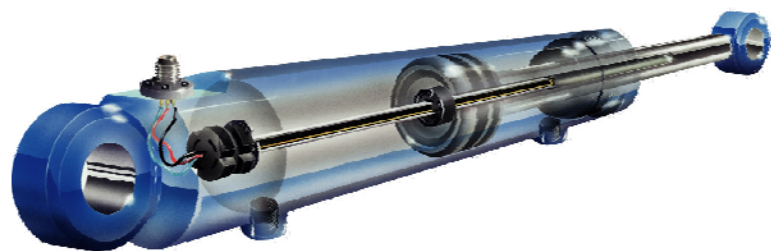
The PS6300 is made of conductive plastic, which gives advantages as long lifetime and excellent linearity. The sensor has been on the market in several years in many interesting and demanding applications such as mobile, industrial, agriculture and marine.

The absolute analogue output of the PS6300 allows a simple connection to various external control or regulation systems and eliminates the need to reset it.

The design of the PS6300 allows it to be incorporated in any kind of cylinder, yielding a compact and mechanically well protected unit. This also simplifies machine design and minimises maintenance costs. In addition, this protects the sensor against damage from harsh environments.



The cylinder sensor is used with excellent results in several applications.



Electrical specifications

Electrical stroke.....	50-1000 mm, se table next page
Resistance $\pm 20\%$	se table next page
Resolution.....	infinite
Maximum supply voltage.....	40 V DC
Recommended input impedance....	100 x sensor resistance
Independent linearity.....	± 0.4 mm, se table next page

Mechanical specifications

Repeatability.....	$< 0,013$ mm*
Temperature range.....	$-40^{\circ}\text{C} - +125^{\circ}\text{C}$
Life time.....	$> 100 \times 10^6$ cycles*
Profile straightness.....	0,1/100 mm
Speed.....	Hydraulic..... 2,0 m/s
.....	Pneumatic..... 5,0 m/s

*) Performance may change during life time



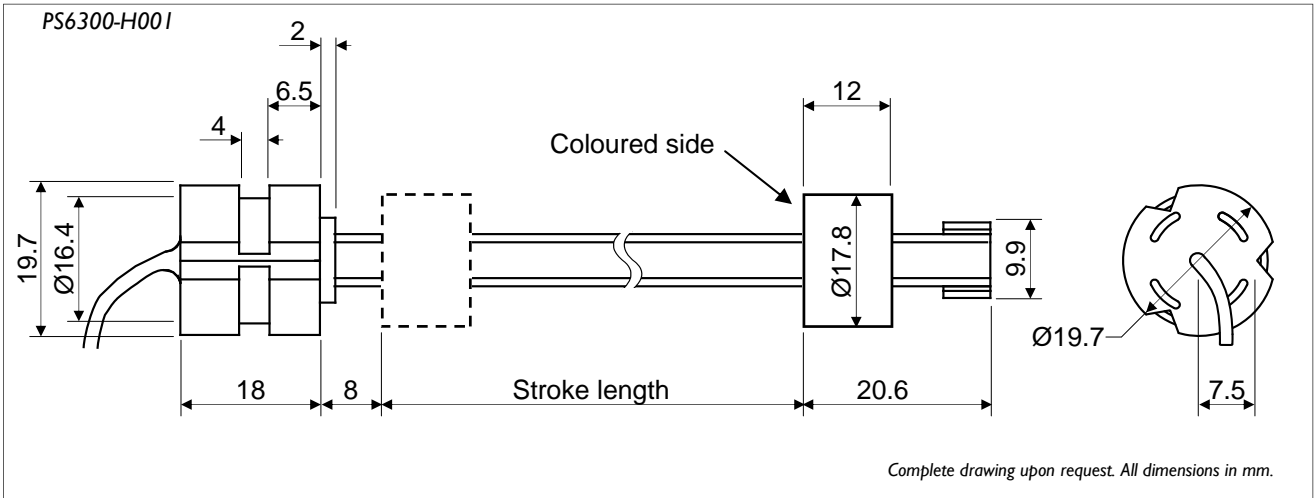
Specifications subject to change without notice.

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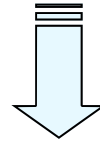
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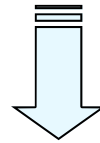


Model No.	Electrical stroke length A, mm	Resistance kΩ	Linearity* Standard ± %
PS6301	50	4	0,750
PS6302	100	8	0,380
PS6303	150	12	0,250
PS6304	200	16	0,190
PS6305	250	20	0,150
PS6306	300	24	0,130
PS6307	350	28	0,110
PS6308	400	32	0,100
PS6309	450	36	0,085
PS6310	500	40	0,075
PS6311	550	44	0,070
PS6312	600	48	0,065
PS6313	650	52	0,060
PS6314	700	56	0,055
PS6315	750	60	0,050
PS6316	800	64	0,047
PS6317	850	68	0,045
PS6318	900	72	0,042
PS6319	950	76	0,040
PS6320	1000	80	0,038

* In addition following are available:
 A = ±0,1% B = ±0,05% S = Special



6140-Connector



Mounting suggestion

