



PS6300

Cylinder sensor 50-1000 mm

Regasense® is a trademark from Regal for position sensors. PS6300 is one in the family. The linear potentiometer sensor is small for compact installation in cylinder applications. Almost 40 years of experience in manufacturing of industrial and military potentiometers guarantee a high quality and reliability.

The PS6300 has a conductive plastic element, which provides benefits such as long life and good linearity values. It has been on the market for many years in interesting and demanding applications such as industry, agriculture and forestry and marine environment.

With an absolute analogue output, it is easy to connect to different types of measuring or control systems and does not need to be reset when switching on or starting the machine.

With flexible mounting possibilities in cylinders, with or without link ears, a compact and mechanically well protected sensor unit is obtained. It also provides a simplified machine design and minimizes maintenance costs. In addition, the sensor becomes insensitive to external environmental impact, such as impacts, shocks and dirt etc.



- High accuracy
- Compact design
- Priceworthy

SPECIFICATION

Power supply	
Recommended	10 VDC
Max	40 VDC
Max effect	10 mW/mm @ 70°C
Output signal	Potentiometer
Non-linearity	Standard ±0,4 mm
Resolution	Near infinite
Repeatability	<±0.013 mm
Recommended input impedance	1000 x sensor resistance
Effective stroke	50 - 1000 mm
Temperature	
Operating	-40°C...+125°C
Material	
Housing	Plastic
Sensor profile	Nickel plated aluminum
Sensing element	Conductive plastic
Working pressure	350 bar
Life time	1x10 ⁶ meters of contact travel

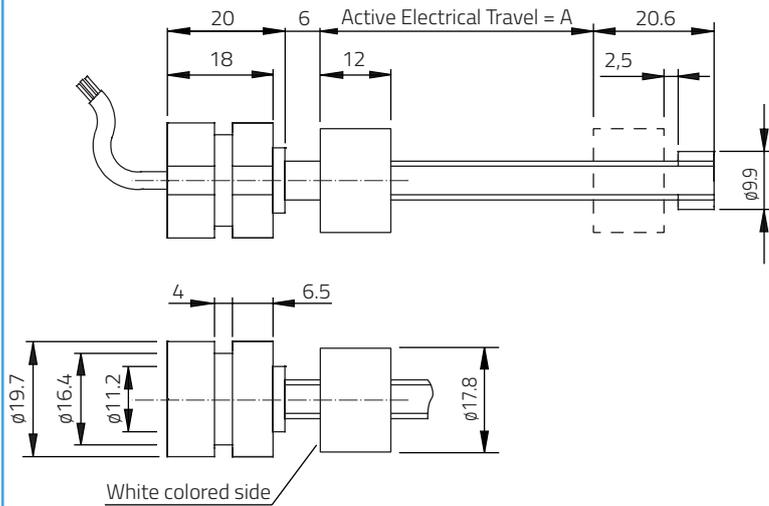
ORDER INFORMATION

Model	Standard linearity ±%	Electric stroke mm	Resistance kΩ ±20%
PS6301	0.750	50	4
PS6302	0.380	100	8
PS6303	0.250	150	12
PS6304	0.190	200	16
PS6305	0.150	250	20
PS6306	0.130	300	24
PS6307	0.110	350	28
PS6308	0.100	400	32
PS6309	0.085	450	36
PS6310	0.075	500	40
PS6311	0.070	550	44
PS6312	0.065	600	48
PS6313	0.060	650	52
PS6314	0.055	700	56
PS6315	0.050	750	60
PS6316	0.047	800	64
PS6317	0.045	850	68
PS6318	0.042	900	72
PS6319	0.040	950	76
PS6320	0.038	1000	80

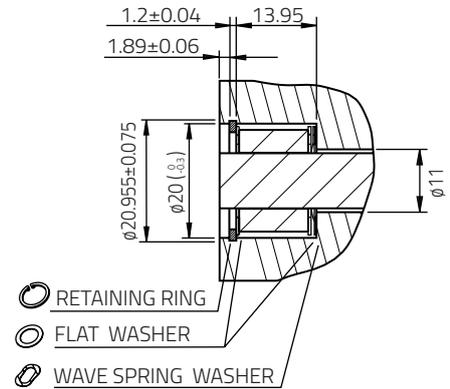
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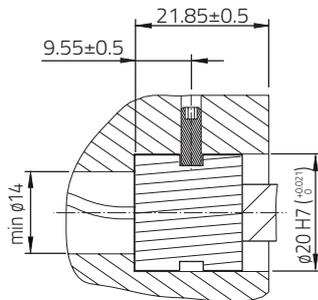
Dimensions sensor



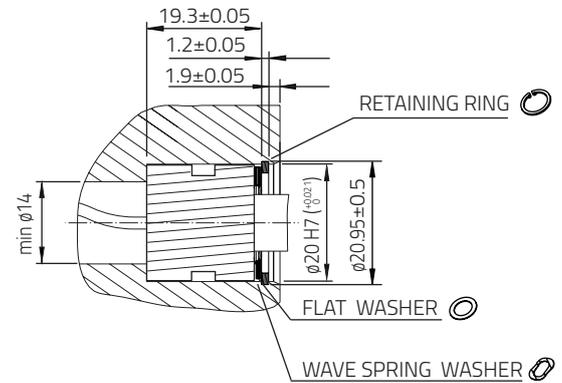
Installation dimensions wiper



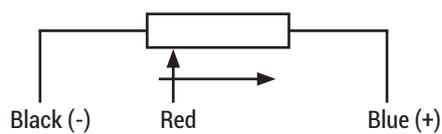
Installation dimensions stop screw



Installation dimensions retaining ring



Connection



3x AWG22 (0.35 mm²)
Length: 305±12 mm

Connector

6140 (M12)

After the cables have been passed through the cylinder, they are soldered to the connector. The connector is pressure sealed.



See separate data sheet for further details