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SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

070516241B002
0.5-4.5V, 0..160 bar, G1/4-E, M12

- Measuring range up to 600 bar
- Silicon-on-sapphire sensor
- Outstanding overpressure protection
- Outstanding repeatability

PRODUCT DESCRIPTION

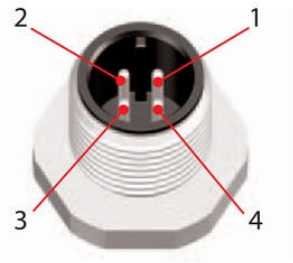
The SUCO 0705/0710/0720 series are precision pressure sensors built with silicon-on-sapphire (SOS) sensing elements housed in a fully welded stainless steel and titanium body, delivering exceptional durability and media compatibility. They support ten standard gauge pressure ranges and multiple output types, offering flexibility across various systems. Featuring rapid response times, repeatability of ±0.1 % full scale, accuracy around ±0.5 %, and shock/vibration resistance (500 m/s², 20 g), these sensors ensure reliable performance in demanding environments. Overpressure protection is robust making them safe for high-pressure applications. IP67 (and IP6K9K for certain connectors) rating ensures resilience against water ingress and contaminants.
Designed for rigorous industrial and mobile environments, these sensors are ideal for integration in hydraulic systems, construction and agricultural machinery, marine/offshore platforms, and other high-pressure systems. The variety of electrical connectors, alongside G1/4 or multiple thread patterns (NPT, M14, UNF), ensures compatibility with diverse installations. They excel in real-time monitoring scenarios, such as pump control, leak detection, safety shutdowns, where high accuracy, fast response, and overpressure safety are essential. With long-term stability and temperature compensation from –40 °C to +100 °C (media to +125 °C), these units minimise downtime and maintenance for uses in heavy-duty and offshore sectors.

TECHNICAL DATA

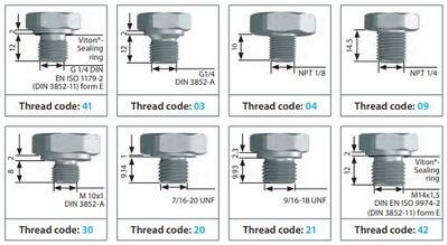
Pressure range min	0 bar
Pressure range max	160 bar
Signal type	0.5-4.5 V ratiometric
Electrical connection	M12x1 4-pole
IP class	IP67
Connection	G1/4-E

Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium
Supply voltage dc min	5 V DC
Supply voltage dc max	6.5 V DC
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Temperature of media from	-40 °C
Temperature of media to	125 °C
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Response time	2 ms
Pressure rise	5 bar/ms
Burst pressure	1280 bar
Vibration resistance	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6
Weight	80 g

Pressure reference	Gauge
Accuracy	±0.5% FS
Repeatability	±0.1% FS
Temperature error	±0.01% FS/°C
Overpressure protection	640 bar
Long term stability	±0.1% FS p.a.



Pin 1	Uv+
Pin 2	nc
Pin 3	Gnd
Pin 4	Out



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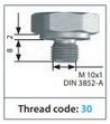

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