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SUCO 0606 SERIES PRESSURE SENSOR

Compact Series

060680166B010
0 - 80 bar, G 3/8, Deutsch DT04-3P



- High IP protection up to IP6K9K
- Pressure ranges from vacuum to 5,000 bar
- Wide range of connectors and threads
- Protection against overload, overvoltage or short circuit
- Various interfaces (CAN, SAE J1938, SENT, RS-485)

PRODUCT DESCRIPTION

The SUCO 0606 Series pressure sensor is built with an ultra-compact stainless-steel housing, engineered to perform reliably in demanding environments. With an impressive IP rating up to IP6K9K, it resists high-pressure and high-temperature wash-down conditions. It covers a broad pressure range from vacuum to 5,000 bar and incorporates strong overpressure protection. The sensor supports various output types including digital (CAN, SAE J1939, SENT, RS-485) and analogue (0–5 V, 0–10 V, 4–20 mA, mV/V), making it compatible with a wide array of control systems. It also offers multiple electrical connections like M12, Deutsch, AMP, and 1 m screened cable, and process connections such as ¼-inch NPT and flush diaphragms. Built-in protections against short circuits and overvoltage further enhance its reliability in electrically noisy environments.
Thanks to its rugged design and versatile connectivity, the 0606 Series is well-suited for use in mobile machinery including agricultural and construction equipment, where it delivers accurate hydraulic pressure monitoring under tough operating conditions like vibration, mud, and water spray. In industrial automation settings, its compatibility with communication protocols such as CAN and RS-485 allows seamless integration into complex control networks and PLC systems. Additionally, it finds application in high-pressure hydraulic testing, fluid handling systems, and emergency safety circuits where precise and durable pressure measurement is essential.

TECHNICAL DATA

Accuracy	± 0.5 % full scale (FS) at room temperature, ± 0.25 % BFSL
Adjustment range max	80 bar
Adjustment range min	0 bar
Burst pressure	800 bar
Connection	G3/8
Electrical connection	Deutsch DT04-3P
IP class	IP67, IP6K9K
Long term stability	± 0.2 % (<100 bar) / ± 0.1 % full scale (FS) per year
Material of body	Stainless steel 304L (1.4306)
Material of wetted parts	Stainless steel 630
Mechanical life expectancy	10,000,000 pulsations at rise rates to 5,000 bar/s
Operating temperature from	-40 °C
Operating temperature to	125 °C
Output signal	0.5 ... 4.5 V ratiometric (3-wire)

Overpressure protection	500
Pressure range max	80 bar
Pressure range min	0 bar
Process connection	G3/8
Repeatability	± 0.2 % (<100 bar) / ± 0.1 % full scale (FS)
Response time	1 ms
Signal type	0.5-4.5 V ratiometric
Supply voltage dc max	6.5 V DC
Supply voltage dc min	5 V DC
Vibration resistance	IEC 60068-2-6