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SUCO - 0520 ELECTRONIC PRESSURE SWITCH

0520475143002
Normally closed, 0 – 250 bar, G 1/4 – female thread, FKM, M12x1

- Ceramic measuring cell
- Adjustable up to 250 bar
- High accuracy
- Adjustment by mechanical screw
- Overpressure proof up to 500 bar

PRODUCT DESCRIPTION

Compact electronic pressure switch in galvanized steel with a ceramic measuring cell for high accuracy. Very long liftetime and simple mechanical setting of switching point via potentiometer. Hysteresis adjustable from factory 2…95 % of working range.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	250 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	G1/4 female
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	600 bar
Pressure max	500 bar

TEMPERATURE & MATERIALS DATA

Temperature of media from	-20 °C
Temperature of media to	125 °C
Temperature ambient from	-30 °C
Temperature ambient to	80 °C

Material of body	Zinc-plated steel
Material of wetted parts	Zinc-plated steel, FKM
Material membrane	FKM

ADDITIONAL DATA

Supply voltage dc max	36 V DC
Supply voltage dc min	15 V DC
Pressure rise	≤ 1 bar/ms
Switching time	< 4 ms
Switching point adjustment range	2..100 % of adjustment range(full scale) nominal pressure, set from outside using set screw
Weight	240 g

SAFETY & APPROVALS

IP class	IP67
Hysteresis	2...95% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure)
Shock resistance	294m / s²; 14 ms half sinusoidal wave; DIN EN 60068-2-27
Vibration resistance	10g: 4-2000 Hz sine wave, DIN EN 60068-2-6
EMC	EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007
Accuracy	±0.5 % of adjustment range (Full scale) at room temperature
Long term stability	±0.1 % of adjustment range (full scale) per year
Mechanical life expectancy	5,000,000 pulsations at rise rates to 1,000 bar/s nominal pressure
Repeatability	±0.1 % of adjustment range (full scale) nominal pressure