

Electronic pressure switch with display

Modelcode type: PSD-4

Item number: 84229833

MEASURING RANGE

Measuring range 0 ... 1 bar gauge

Vacuum tightness yes

DISPLAY

Display 14-segment LED, red, 4-digit,
9 mm character size

OUTPUT SIGNAL

Output signal two switching outputs
(PNP/NPN)

IO-Link IO-Link 1.1

Switching function Normally open, normally
closed, window, hysteresis
Freely adjustable

Switching Voltage Power supply - 1 V

Switching current max. 250 mA

Settling time / Response time ≤ 5 ms

Power supply 15...35 V DC

ACCURACY INFORMATION

Accuracy ± 0.5% of span

Long-term drift 0.10%

TEMPERATURE ERROR

Temperature error 15 ... 25°C No additional error

Temperature error in rated
temperature range maximum: ≤ ±1.5 % of span

OPERATING ENVIRONMENT CONDITIONS

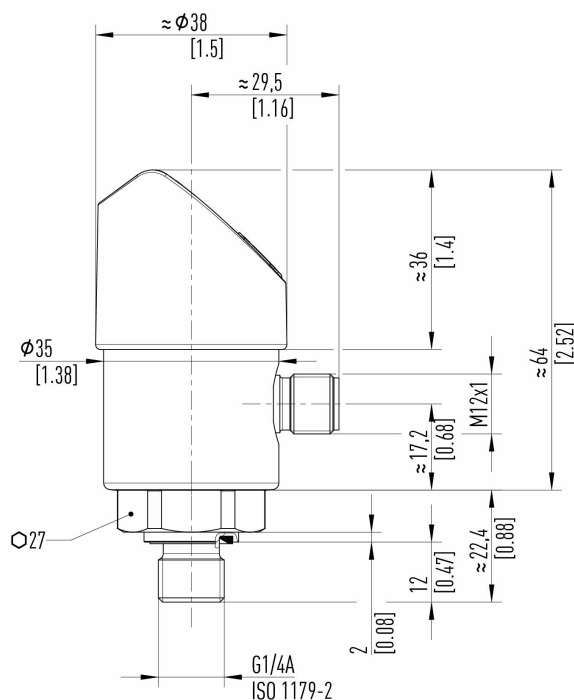
Media temperature -20 ... 85 °C (-4 ... +185 °F)

Permissible ambient
temperature -20 ... +80 °C (-4 ... +176 °F)

Storage and transport
temperature -20 ... 70 °C (-4 ... +158 °F)

Vibration resistance 20 g, 10 ... 2.000 Hz (IEC
60068-2-6, under resonance)

Shock resistance 50 g, 6 ms (IEC 60068-2-27,
mechanical)



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Service life	100 million load cycles and switching cycles
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MATERIALS

Wetted parts	Stainless steel 316L
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PROCESS CONNECTION

Process connection	G 1/4 A DIN EN ISO 1179-2
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Sealing	FPM/FKM
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ELECTRICAL CONNECTION

El. connection	Circular connector M12x1 (4-pin)
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Ingress Protection	IP65 and IP67
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pin assignment el. connection	U+=1, U-=3, SP1/IO-Link=4, SP2=2
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ELECTRICAL SAFETY

Short-circuit resistance	SP1 / SP2 vs. U-
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Reverse polarity protection	U+ vs. U-
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Insulation voltage	DC 500 V
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Overvoltage protection	DC 40 V
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CE-CONFORMITY, APPROVALS AND CERTIFICATES

CE conformity	DGRL EMV, EN 61326 Emission (Group 1, Class B) and Immunity (Industrial area)
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RoHS conformity	Yes
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China RoHS II	Yes
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Specifications according to data sheet	PE 81.86
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Approvals	cULus
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