

Electronic pressure switch with display

Type PSD-4

Item no.: 14240434

MEASURING RANGE		CE-CONFORMITY, APPROVALS AND CERTIFICATES	
Measuring range	0...160 bar gauge	CE conformity	DGRL EMV, EN 61326 Emission (Group 1, Class B) and Immunity (Industrial area)
Overpressure limit	2 times	RoHS conformity	Yes
Vacuum tightness	yes	China RoHS II	Yes
DISPLAY		Specifications according to data sheet	PE 81.86
Display	14-segment LED, red, 4-digit, 9 mm character size	Approvals	cULus
OUTPUT SIGNAL			
Output signal	two switching outputs (PNP/NPN)		
IO-Link	without		
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)		
Service life	100 million load cycles and switching cycles		
MATERIALS			
Wetted parts	Stainless steel 316L + ph-grade steel		
PROCESS CONNECTION			
Process connection	G 1/4 A DIN EN ISO 1179-2 (formerly DIN 3852-E)		
Sealing	NBR		
ELECTRICAL CONNECTION			
El. connection	Circular connector M12x1 (4-pin)		
Ingress Protection	IP65 and IP67		
pin assignment el. connection	U+=1, U-=3, SP1=4, SP2=2		
ELECTRICAL SAFETY			
Short-circuit resistance	SP1 / SP2 vs. U-		
Reverse polarity protection	U+ vs. U-		
Insulation voltage	DC 500 V		
Over voltage protection	DC 40 V		

