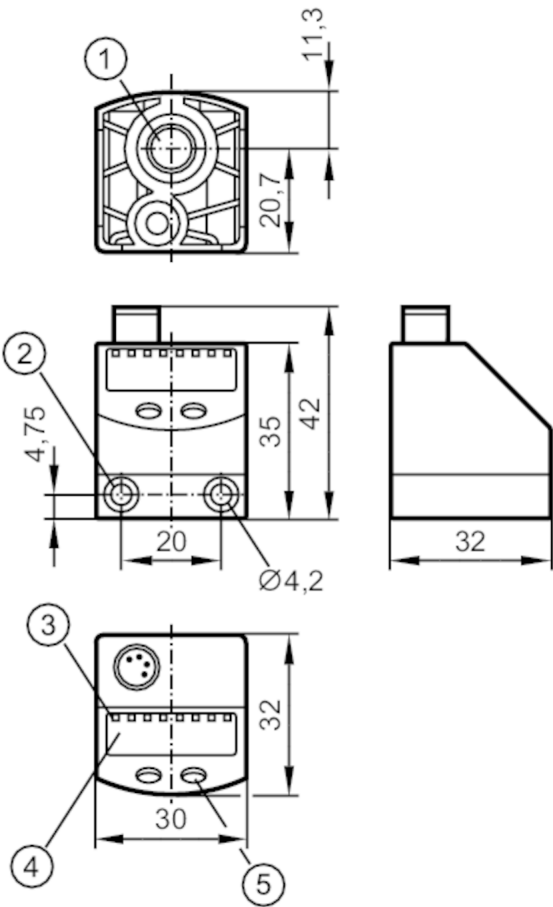


PQ0834



Pressure sensor for pneumatics

PQ-010-RHR18-QFNKG/AS/



- 1 main pressure connection G 1/8 Tightening torque < 8 Nm insertion depth < 7.5 mm
- 2 Tightening torque < 0.5 Nm
- 3 LEDs Display unit / switching status
- 4 alphanumeric display 4-digit
- 5 programming button



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2
Measuring range [bar]	-1...10
Process connection	threaded connection G 1/8 internal thread
Application	
Special feature	Gold-plated contacts
Application	for industrial applications
Media	compressed air
Conditionally suitable for	other media on request
Medium temperature [°C]	0...60
Min. bursting pressure [bar]	30
Min. bursting pressure [MPa]	3
Pressure rating [bar]	20
Pressure rating [MPa]	2



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Type of pressure	relative pressure; vacuum
Electrical data	
Operating voltage [V]	18...32 DC; (to SELV/PELV)
Current consumption [mA]	< 50
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Overvoltage protection	yes; (< 40 V)
Power-on delay time [s]	0.3
Integrated watchdog	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 2
Outputs	
Total number of outputs	2
Output signal	switching signal
Electrical design	NPN
Number of digital outputs	2
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	< 200
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Measuring/setting range	
Measuring range [bar]	-1...10
Set point SP [bar]	-0.9...10
Reset point rP [bar]	-0.95...9.95
In steps of [bar]	0.05
Accuracy / deviations	
Switch point accuracy [% of the span]	< ± 0,5
Repeatability [% of the span]	< ± 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)
Hysteresis deviation [% of the span]	< ± 0,25
Long-term stability [% of the span]	< ± 0,05; (per 6 months)
Temperature coefficient zero point [% of the span / 10 K]	0,2; (0...60 °C)
Temperature coefficient span	0,2; (0...60 °C)



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[% of the span / 10 K]		
Response times		
Response time	[ms]	< 2.5
Delay time programmable dS, dr	[s]	0; 0,002...5
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; diagnostic function; switching logic; switch-on/switch-off delay; Damping; Display unit	
Operating conditions		
Ambient temperature	[°C]	0...70
Storage temperature	[°C]	-25...85
Protection		IP 65
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5/1 kV
	EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF	[years]	443
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	85.5
Housing		rectangular
Dimensions	[mm]	42 x 30 x 32
Materials		PBT; FKM; polyester
Materials (wetted parts)		brass; FKM; silicon (coated); PBT
Min. pressure cycles		50 million
Process connection		threaded connection G 1/8 internal thread
Displays / operating elements		
Display	Display unit	4 x LED, green
	switching status	2 x LED, yellow
	function display	alphanumeric display, 4-digit
	measured values	alphanumeric display, 4-digit
Display unit	bar; kPa; psi; inHg	
Accessories		
Accessories (optional)	mounting set for DIN rail: TH 35-7,5 / EN60715, E37340	
	Thread extension: 1/8", E30075	
	push-in air fitting for tube: Ø 6 mm, E30076	
	push-in air fitting for tube: Ø 8 mm, E30077	
Remarks		
Pack quantity	1 pcs.	

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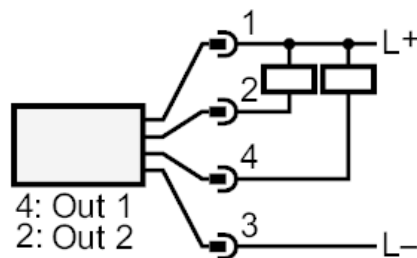
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Electrical connection

Connector: 1 x M8; coding: A; Contacts: gold-plated



Connection



OUT1	switching output
OUT2	switching output
	Diagnostic output