



Pressure Switch

G1/4" or 1/4" NPT

Rotork manufacture pressure sensing components to operate in high vibration areas with accurate repeatability giving reliable performance. For use in multiple applications.

- Ambient Temperature Range -40 to +85 °C
- Accurate, Repeatable, Durable
- Tested in accordance with EN 61373 (Category 1 Class B) shock and vibration testing
- Four Pressure ratings compact and lightweight
- Corrosion Resistance, Salt Mist Test ISO 9227

Ambient Temperature Range

• -40 to +85 °C (-40 to +185 °F)

Maximum Inlet Pressure

24 bar

Adjustable Working Pressure Ranges

• 0.2 to 2 bar (2.9 - 29 psi)

• 0.5 to 8 bar (7.3 - 116 psi)

• 1.0 to 10 bar (14.5 - 145 psi)

• 1.6 to 16 bar (23.2 - 232 psi)

Life Expectancy

- ≥10⁷ switching cycles at 60 cycles/minute (mechanical life / no electrical load)
- ≥ 2 x 10⁵ switching cycles at 20 cycles/minute (electrical life / 100 mA electrical load)

Degree of Protection

IP65 in accordance with EN 60529 (including electrical connections)

Mounting Position

- All orientations
- 2 off Ø 5.3 mm dia through holes



Performance Data

Switching Pressure Hysteresis

Maximum hysteresis between rising and falling switch pressures across complete operating conditions:

- (0.2 to 2 bar) 0.35 bar MAX.
 (2.9 to 29.0 psi) 5.1 psi MAX
- (0.5 to 8 bar) 1.0 bar MAX. (7.3 to 116.0 psi) – 14.5 psi MAX
- (1.0 to 10 bar) 1.2 bar MAX.
 (14.5 to 145.0 psi) 17.4 psi MAX
- (1.6 to 16 bar) 1.8 bar MAX. (23.2 to 232.1 psi) – 26.1 psi MAX

Max Operating Cycle Rate

• 300 cycles/minute (no electrical load)

Repeatability

Repeatability at static operating conditions (units set to midpoint switching pressure):

- (0.2 to 2 bar) ±0.05 bar
 (2.9 to 29.0 psi) ±0.73 psi
- (0.5 to 8 bar) ±0.08 bar
 (7.3 to 116.0 psi) ±1.16 psi
- (1.0 to 10 bar) ±0.10 bar
 (14.5 to 145.0 psi) ±1.45 psi
- (1.6 to 16 bar) ±0.10 bar
 (23.2 to 232.1 psi) ±1.45 psi

Repeatability across complete operating conditions:

- (0.2 to 2 bar) ±0.10 bar (2.9 to 29.0 psi) – ±1.45 psi
- (0.5 to 8 bar) ±0.15 bar
 (7.3 to 116.0 psi) ±2.18 psi
- (1.0 to 10 bar) ±0.25 bar (14.5 to 145.0 psi) – ±3.63 psi
- (1.6 to 16 bar) ±0.25 bar
 (23.2 to 232.1 psi) ±3.63 psi

Electrical Ratings

- DC voltage range: 5-30 VDC
- AC voltage range: 5-250 VAC
- Applicable current range: 1 mA to 100 mA

Note: Contact protection is recommended when switches used in an inductive load circuit. Other electrical ranges available on request.

Electrical Connection

DIN EN 175301-803 (DIN 43650) form A connection

Construction Materials

- Housing Body: Aluminium (anodised)
- Diaphragm: Silicone rubber
- Shaft: Stainless Steel
- Pressure Seals: EPDM, NBR
- External Seals: Silicone, EPDM
- Locking Mechanism: Stainless Steel
- Electrical Connector: PA (Polyamide Nylon)
- Microswitch contacts: Triple layer gold plated (UL & CSA approved)



Operating Media

Neutral, gaseous and liquid fluids, non-combustible.
 Air supply must be dry enough to avoid ice formation at temperatures below +2 °C (+35 °F)

Switching Function

- Terminal 1 to 3: on rising pressure contacts close
- Terminal 1 to 2: on rising pressure contacts open



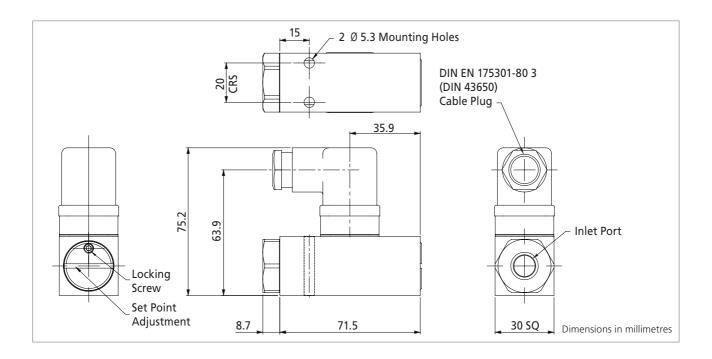
Switch Rating

• 1 mA to 100 mA

Weight

• 203 g (0.45 lbs)

Dimensional Data



Ordering Information

Standard switch assembly

Size		Туре		Material		Diaphragm /Pressure Seals		Pressure		Port Style		
2	1/4 "	PSE	Pressure Switch	Α	Alum	F	Silicone	e / EPDM / NBR	02	0.2 - 2	1	BSP
									08	0.5 - 8	2	NPT
									10	1 - 10		
									16	1.6 - 16		
						,						
2		PSE		Α		F		••		•		

Example part number: 2PSEAF021.

Optional extra

	Set Pressure									
XXX	Customer	R	Rising							
***	Specified*	F	Falling							
	•••		•							

* Specify Set Pressure within the range of 0.5 to 16 bar in 0.1 increments (± 0.2 bar). Use three digits to specify Set Pressure e.g. 12.5 bar = 125 and suffix standard part number (Example: 2PSEAF161 125R)

Standard switch assemblies are un-set ex-works.

Pre-set option available, minimum order quantity applies. Please contact sales for further information



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