

Pressure switches



Piston actuated
With soft seal, no leakage
For neutral gaseous and liquid fluids
Working pressure range 5 ... 250 bar

Sales range
Pressure- and Temperature Engineering
D 505/8 D

Publication 7500617.06.04.83

Description (standard unit)

Pressure switch for oil-treated compressed air, hydraulic oil, water-oil emulsion (state kind of fluid) and other fluids with good antifriction properties that do not attack the material of the pressure sensor. Working viscosity up to 1000 mm²/s

Switching element: Microswitch
Protection class: IP 54
Ambient temperature: -5 to +50 °C

(grooved ring seal)
-30 to +50 °C
(glydring seal)

Fluid temperature: 0 to +90 °C

Max. temperature at switching element: +80 °C

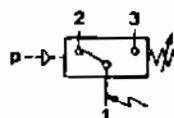
Mounting position: Upright

Max. allowable vibrations: 10 g
(sinusoidal)¹⁾



Features

- Small design
- Provided with scale for easy adjustment of switching points even during operation
- Design with glydring-seal for application in temperatures below 0 °C



Switching function:

Microswitch SPDT

Terminals 1-3: Contacts close on rising pressure

Terminals 1-2: Contacts open on rising pressure

Parameters

Adjustable range p _{sw min} ... p _{sw max} (VDI 3283)	Switching pressure difference		Max. allowable pressure ⁴⁾	Number of switching cycles z = [1/min]	Pressure sensor materials			Type of connection	Connection (internal thread)	Total weight [kg]	Dimensional drawing No.	Cat. No.
	lower range	upper range			Housing	Seal	Piston					
[bar]	[bar]	[bar]	[bar]									

Switching pressure difference not adjustable
Setscrew protected by plastic cover

5 ... 70	7	12	250	20 max. (no sudden pressure changes, if necessary, install surge damper)	Aluminum 3.2582	NBR (Perbunan)	St.al. 1.4104	I	R1/4	0,4	01	0821051 ³⁾
5 ... 70	7	10	250					I	R1/4	0,4	01	0821077 ²⁾
5 ... 70	7	12	250					P	-	0,4	02	0821151 ³⁾
10 ... 160	9	18	250					I	R1/4	0,4	01	0821050 ³⁾
10 ... 160	9	18	250					P	-	0,4	02	0821160 ³⁾
50 ... 250	12	16	340					I	R1/4	0,4	01	0821097 ²⁾
50 ... 250	12	16	340					P	-	0,4	02	0821172 ²⁾
50 ... 250	12	16	340									

The threads, here characterized by R to DIN 259, correspond to the straight threads G to ISO 228/1.

I - Internal thread
P - Flange (for batteries)

¹⁾ Tested in accordance with DIN 89011, 5.2., within the frequency range 25 ... 100 Hz; within the frequency range 2 ... 25 Hz tested with amplitude 1.6 mm.

²⁾ With glydring and O-ring.

³⁾ Approved by GL Germanischer Lloyd, BV Bureau Veritas, DNV Det Norske Veritas, LR Lloyd's Register of Shipping.

⁴⁾ Observe switching pressure range, do not subject switch to max. allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

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