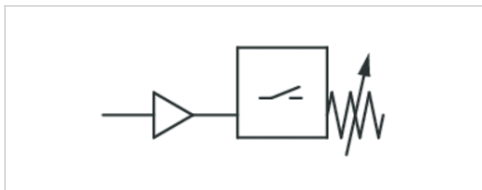


Pressure Switches, Series PM1

- Operating pressure 0,2 ... 16 bar
- mechanical
- Spring-loaded bellow, non-adjustable
- Electr. connection Plug, ISO 4400, form A
- Compressed air connection CNOMO
- PM1-M3-F001



Type	mechanical
Function	change-over contact (mechanical)
Mounting orientation	Any
Compressed air connection	CNOMO
Working pressure min./max.	0,5 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-10 ... 80 °C
Medium	Compressed air, hydraulic oil
Measurement	Relative pressure
Switching element	microswitch (input/output)
Protection against overpressure	80 bar
Max. switching frequency	1,5 Hz
Shock resistance max.	15 g
Vibration resistance	10 g (60 - 500 Hz)
Repeatability (% of full scale value)	± 1 %
Switching point	adjustable
Hysteresis	max. switching pressure difference
DC operating voltage,min./max.	12 ... 30 V DC
Operational voltage AC,min./max.	12 ... 250 V AC
DC switching current, max.	3 A
Mounting types	via through holes
Protection class	IP65
Electr. connection	Plug, ISO 4400, form A
Weight	0,16 kg



Technical data

Part No.	Type	Operating pressure range min./max.	DC switching current, max.
R412010721	PM1-M3-F001	0,2 ... 16 bar	3 A

Min. switching pressure range 0.2 bar falling/0.5 bar rising, without electrical connector

Technical information

s

from 1-3 to 1-2.

Set to 1.5 bar operating pressure. Adjustment screw secured and covered by an adhesive label.

Notice: Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!

The microswitch has silver-plated contacts.

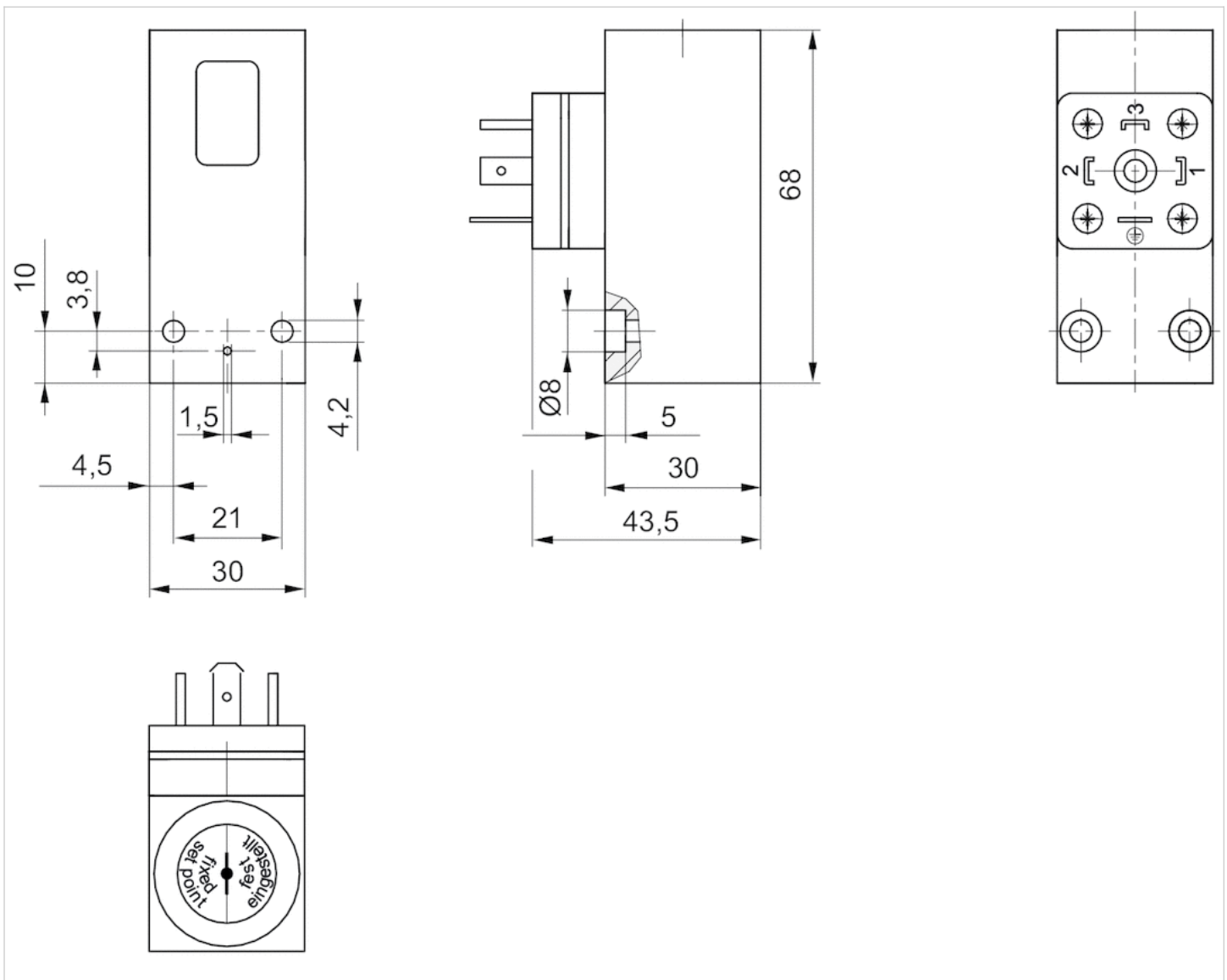
Technical information

Material

Housing	Aluminum
Electr. connection	Brass, nickel-plated

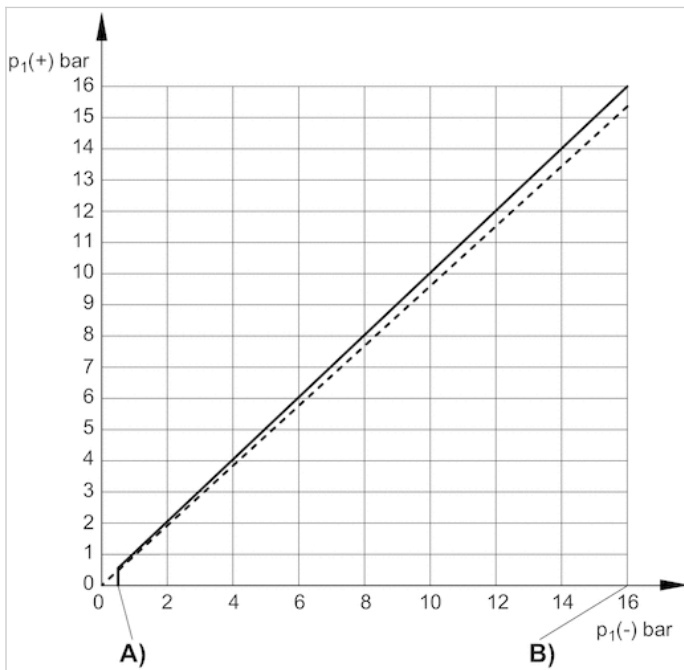
Dimensions

Dimensions



Diagrams

differential switching pressure characteristic curve (02 - 16 bar)



A) $p_1(-)$, min. B) $p_1(-)$, max. $p_1(+)$ = upper switching pressure with increasing pressure $p_1(-)$ = lower switching pressure with decreasing pressure

Diagrams

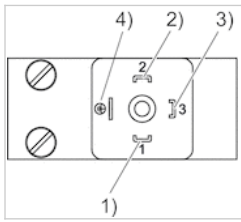
U [V]	I [A] 1)	I [A] 2)
30	5	3
48	5	1,2
60	5	0,8
125	5	0,4
250	5	-

Diagrams

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2
48	3	0.55
60	3	0.4
125	3	0.15
250	3	-

Pin assignments

PIN assignment for electrical connector



1) +UB2) electric for 12-24 V DC, break contact
3) NO (make contact)
4) GND

