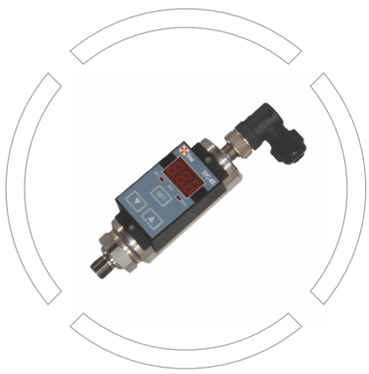
TFPC-400

Electronic Pressure Switch



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Introduction/ Description

- T-FPC is a compact electronic pressure switch with built in digital display in three digits.
- The switching point and the corresponding hysteresis can be adjusted via keypads.
- It is high in precision, small in volume. Switching points and switch-back hysteresis can be adjusted independently. Accuracy class1%.
- T-FPC can be used in carrying one or two switching output or one analogue signal output besides directly measure the pressure value.
- Four different output models are available : with one switching point, with two switching points and both models can also have an additional analogue output signal 4...20mA.
- It can mainly be used in exactly monitoring pressure of hydraulic and pneumatic system. It can be used in places which needs high switching frequency with high precision where the normal mechanical pressure relay/switch cannot fulfill the demands.

Ordering code

TFPC	400	A	16	000	

Plant Code

Series Code

Output signal

One-way switch output	= A
Two-way switch output	= B
One way switch output and one-way analogue output	= C
Two-way switch output and one-way analogue output	= D

Measuring range in bar

16 bar	= 16
40 bar	= 40
100 bar	= 100
250 bar	= 250
400 bar	= 400

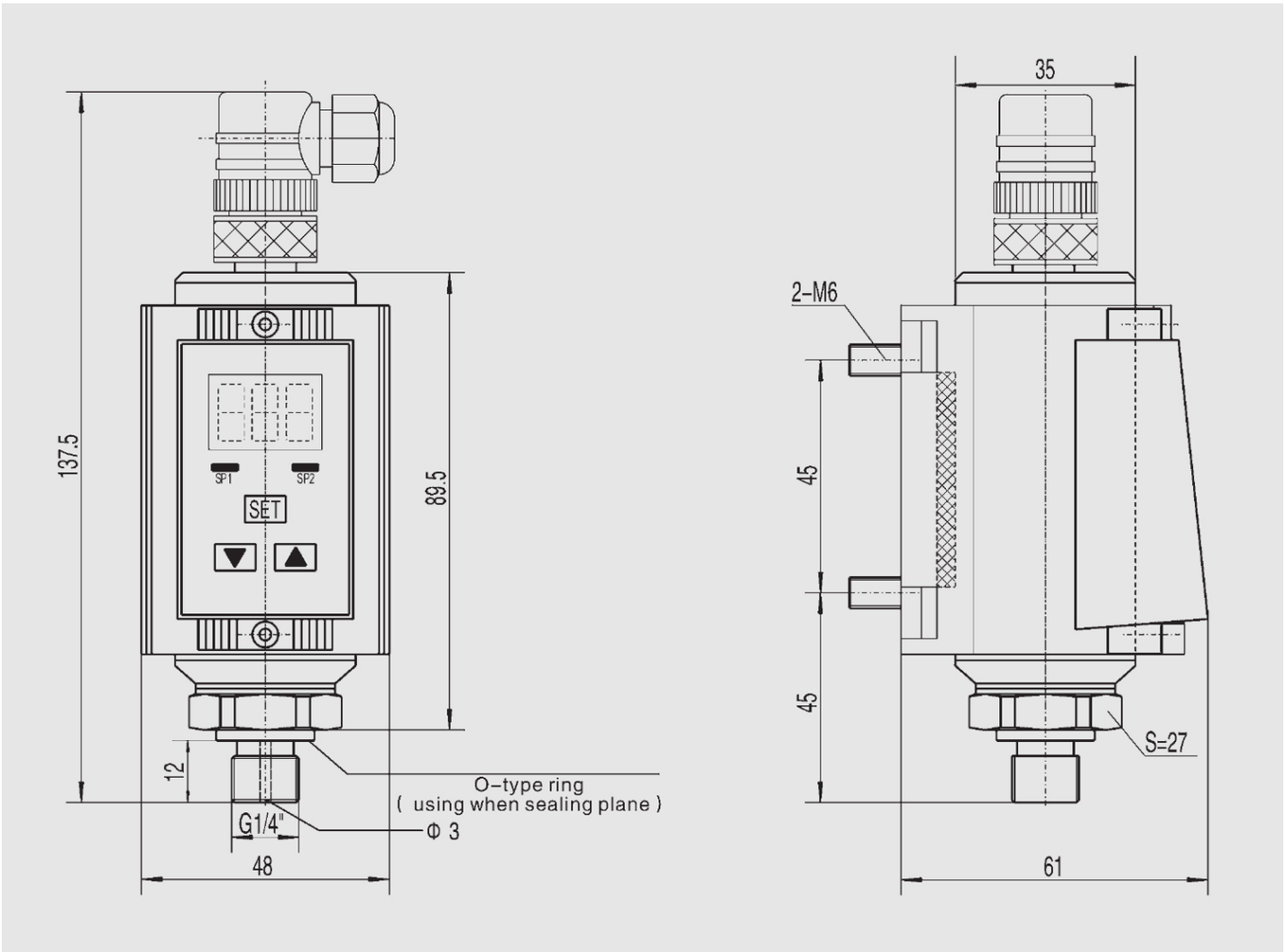
Model's Code Changed Standard type

Special requirement

Technical data

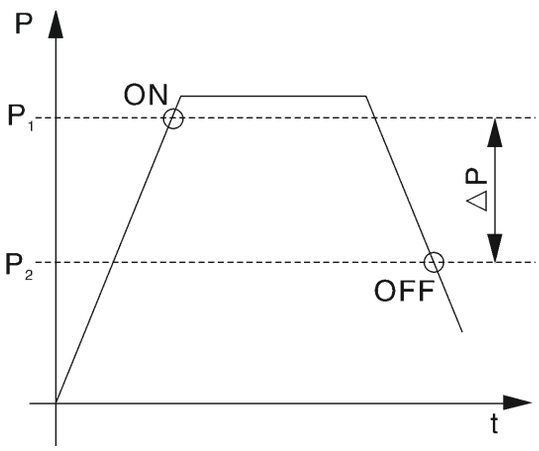
Basic data	
Measuring range	16, 40, 100, 250, 400 bar
Overload pressure	Less than 100 bar : 200%, More than 100 bar : 150 %
Output data	
Accuracy (display/analogue output)	≤+ 1.0%FS
Repeat Accuracy	≤+ 0.5%FS
Temperature excursion	≤+ 0.3%/10° C
Analogue Output	
Signal	4~20mA, Resistance ≤400Ω
Switch output	
Output type	Transistor output (PNP)
Switch current	1.2A Max. 1.2 A
Response time	About 10ms approx.
Ambient condition	
Temperature range of medium	-25 ~ +80° C
Ambient temperature range	-10 ~ +60° C
Other data	
Power supply voltage	20~32 VDC
Current consumption	100mA About 100mA
Protecting class / safety	IP65
Panel display	3-digit, 7-section LED display, word height 9.2mm, color red
Connection thread	G1/4" A to DIN3852, torque rating 17.....20Nm
Parts in contact with medium	Stainless steel
Material housing	Tube : stainless steel Keypad housing : PA6.6
Weight	Approx. 325gram for the bare unit

Unit Dimensions (Dimensions in mm)



Switching point and switch-back point

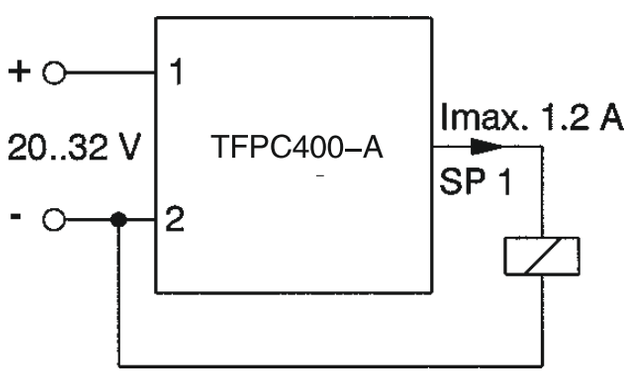
- The switching point is defined as being the pressure value, which when it is reached (while pressure is increasing) causes a change in the relay state switching output.
- This output state is maintained until the pressure falls below ,the switch-back point allocated to the switching point.
- The switch-back point is the pressure value at which the output relay switches back to its original state.
- The difference between the switching point and switch-back point is defined as being the switch-back hysteresis.



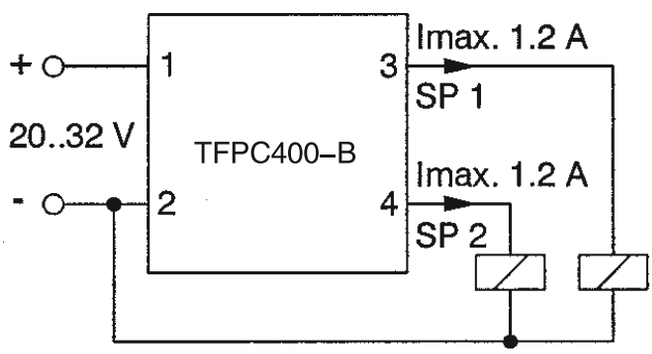
- P1 = Switching point
- P2 = Switch-back point
- △P = Switch-back hysteresis (switching point minus switch-back point)

Circuit / wiring diagram

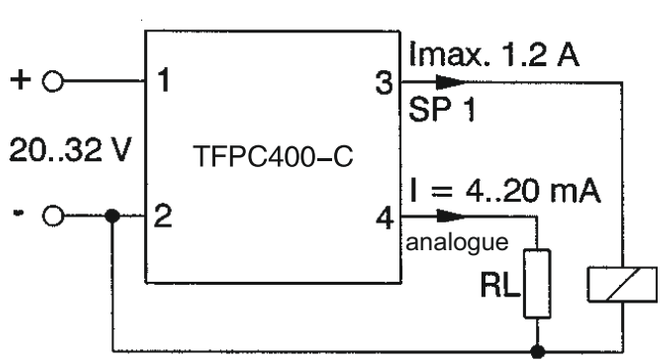
- Model with 1 switching output



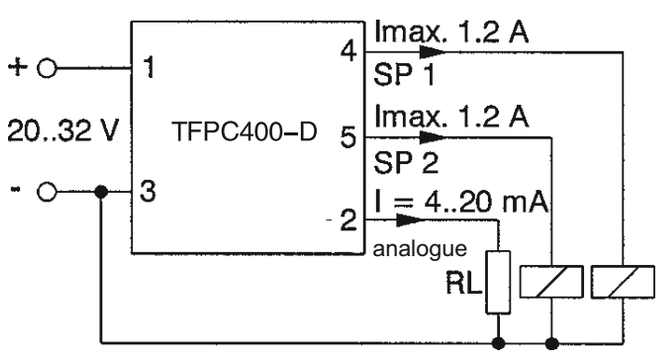
- Model with 2 switching outputs



- Model with 1 switching output and 1 analogue output

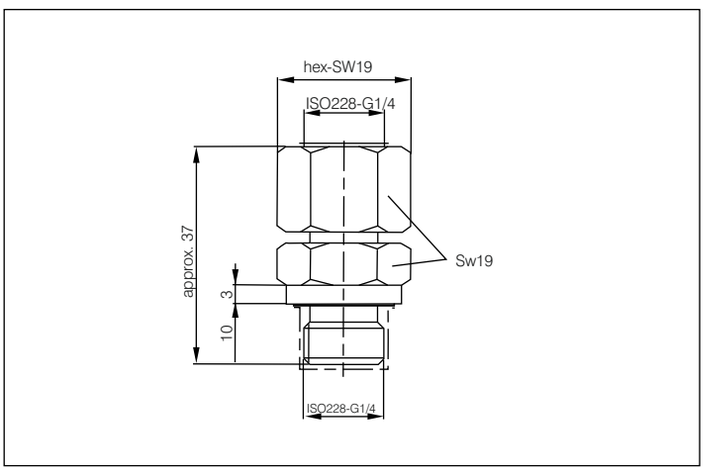


- Model with 2 switching outputs and 1 analogue output:



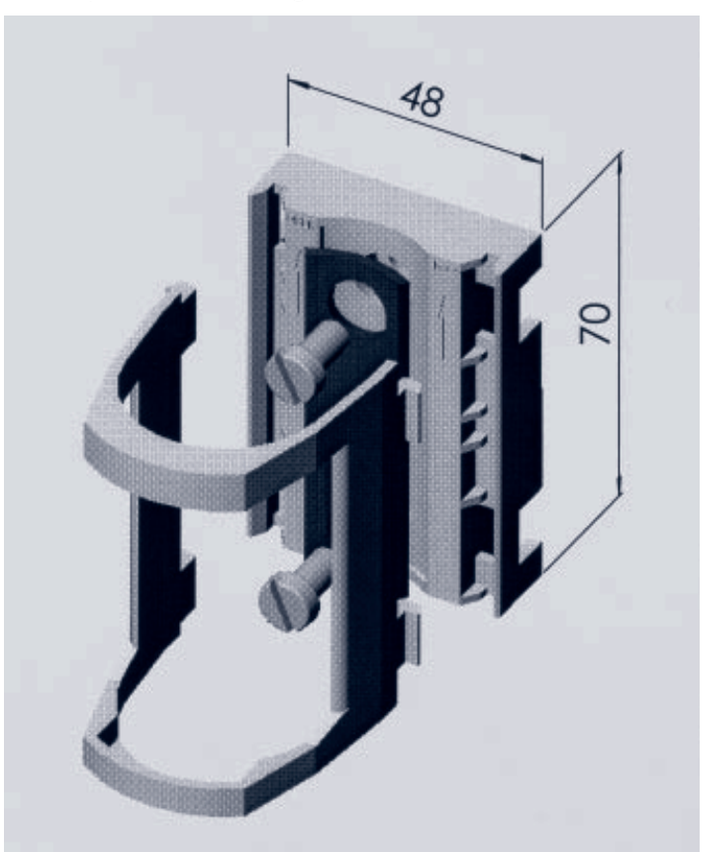
Mechanical Accessories

- TBM-14 connection adaptor G¼ female thread - G1/4 male thread for optimum alignment of the pressure switch.



Seals:
Female thread: NBR
Male thread: NBR

- TBM-400 (material polypropylene) clamp for wall-mounting the TFPC-400



The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

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