



## Electronic Pressure Switch



measuring  
•  
monitoring  
•  
analysing

PDD



PDD-55  
PDD-75



PDD-15  
PDD-25

- Measuring range:  
-1... 0 to 0 ...700 bar
- Measuring span  
from 600 mbar
- Temperature: max. 80°C
- Accuracy:  
±0.5% of full scale  
(±1.0% of full scale)
- Housing material:  
stainless steel
- Connection:  
G 1/4, G 1/2,  
1/4" NPT or 1/2" NPT



P3

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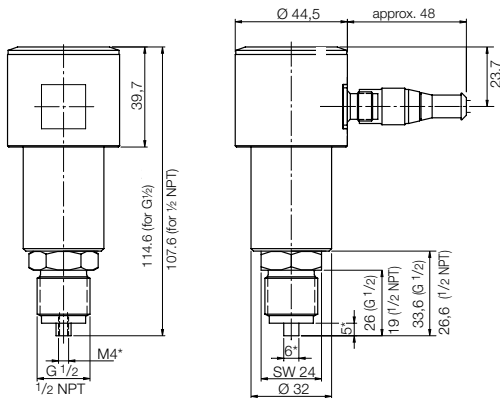


**Description**

KOBOLD pressure sensors/switches series PDD are cost effective electronic pressure switches with digital indication of actual pressure. Two switch points, on /off-switch delay and hysteresis are within the measuring range programmable.

A piezzo resistive ceramic sensor is used. The units can be used where high switching accuracy is needed. Long term stability, repeatability and the compact and robust design makes them ideal for use in OEM applications.

**Dimensions**



\* No nipple on NPT thread (dimensions G $\frac{3}{4}$  male on request)

**Applications**

- Compressors
- Machinery industry
- Installations
- Pumps

**Technical Details**

- Housing: stainless steel 1.4305
- Anschlüsse: G  $\frac{1}{4}$  or G  $\frac{1}{2}$  male stainless steel 1.4404 option  $\frac{1}{4}$ " or  $\frac{1}{2}$ " NPT others on request
- Gasket: FPM (Option: EPDM)
- Sensor element: piezzo resistive ceramic cell
- Indication: 3-digit LED, height 7 mm
- Resolution: max. 0,01 bar (depending on measuring range and measured value)
- Max. temperature: media: -20...+80°C ambient: -20...+80°C
- Max. over pressure: up to 60 bar: 3 times from 100 bar: 2 times of the range 400 bar: 1.5 times of the range
- Supply voltage: 24 V<sub>DC</sub>  $\pm$  20 %
- Power consumption: approx. 100 mA (without switching output)
- Electr. connection: plug M12x1
- Switching output: PNP or NPN semiconductor (factory set), max. 300 mA, short-circuit proof
- Contact: N/O or N/C, programmable
- Switch point adjustment: programmable via 2 buttons
- Output indicator: 1 LED
- Hysteresis: adjustable via 2 buttons
- ON/OFF-switching delay: 0.5... 99.5 s (separately adjustable)
- Response time: 0.5 s
- Accuracy:  $\pm$ 0.5 % of f. s. ( $\pm$ 1.0 % of f. s. for measuring range:  $\leq$  1.6 bar)
- Protection: IP65

**Order Details (Example: PDD-15 3 R2 C315)**

Model	Description	Output	Electrical connection	Mechanical connection	Measuring range [bar]	Measuring range [PSI]
PDD-	Electronic pressure switch made of stainless steel	<b>15</b> = 1x PNP-switching output <b>25</b> = 1x NPN-switching output <b>55</b> = 2x PNP-switching output <b>75</b> = 2x NPN-switching output	3 = plug M12x1	<b>R2</b> = G $\frac{1}{4}$ <b>R4</b> = G $\frac{1}{2}$ <b>N2</b> = $\frac{1}{4}$ " NPT <b>N4</b> = $\frac{1}{2}$ " NPT	<b>C315</b> = -1 - 0	<b>H315</b> = -30 - 0 in Hg <b>P025</b> = 0 - 15 <b>P045</b> = 0 - 30 <b>P055</b> = 0 - 50 <b>P065</b> = 0 - 100 <b>P075</b> = 0 - 150 <b>P085</b> = 0 - 200 <b>P095</b> = 0 - 350 <b>P105</b> = 0 - 600 <b>P115</b> = 0 - 1000 <b>P125</b> = 0 - 1450 <b>P135</b> = 0 - 3200 <b>P145</b> = 0 - 3600 <b>P155</b> = 0 - 5800 <b>YYYY</b> = special
					<b>B025</b> = 0 - 1	
					<b>B035</b> = 0 - 1,6	
					<b>B045</b> = 0 - 2,5	
					<b>B055</b> = 0 - 4	
					<b>B065</b> = 0 - 6	
					<b>B075</b> = 0 - 10	
					<b>B085</b> = 0 - 16	
					<b>A095</b> = 0 - 25	
					<b>A105</b> = 0 - 40	
					<b>A115</b> = 0 - 60	
					<b>A125</b> = 0 - 100	
					<b>A135</b> = 0 - 160	
					<b>A145</b> = 0 - 250	
					<b>A155</b> = 0 - 400	
<b>A165</b> = 0 - 600						
<b>A167</b> = 0 - 700						

**Additional: Electrical connection**

Description	Model
M12x1 socket with 2 m cable	ZUB-KAB-12K002
M12x1 socket with Quickon-plug	ZUB-KAB-12Q000