



## Electronic Pressure Switches



measuring  
•  
monitoring  
•  
analysing



- Switching range:  
-1 ... 0 to 0 ... 400 bar
- Temperature:  
max. 80 °C
- Accuracy:  $\pm 0.5\%$
- Housing material:  
Stainless Steel
- Connection:  
G 1/4, G 1/2 male  
1/4 NPT or 1/2 NPT



KOBOLD offices exist in the following countries:

ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA,  
CHINA, COLOMBIA, FRANCE, GREAT BRITAIN, NETHERLANDS,  
POLAND, SWITZERLAND, USA, VENEZUELA

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**Model:**  
PDD

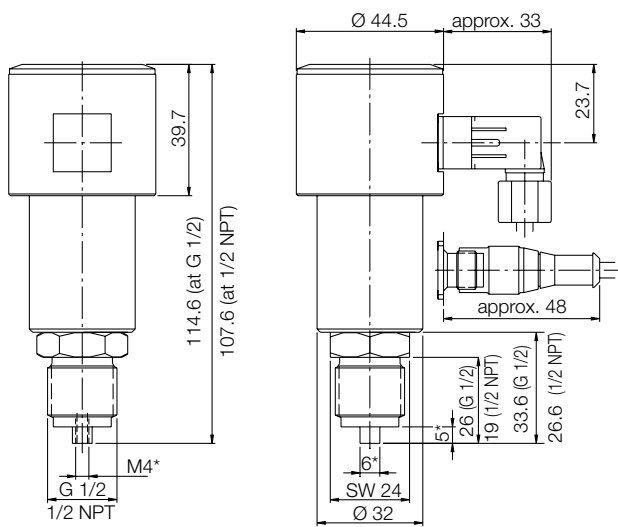


**Description**

KOBOLD pressure sensors/switches series PDD are cost effective electronic pressure switches with digital indication of actual pressure. Switch point and hysteresis are 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 it an ideal unit for use in OEM applications.

**Dimensions**



\*No nipple on NPT thread

**Applications**

- Compressors
- Machinery industry
- Pumps
- Installations

**Technical Details**

- Housing: Stainless Steel 1.4305
- O-Ring: Viton
- Connections: G 1/4 or G 1/2 male  
St. St. 1.4404  
Option 1/4" or 1/2" NPT  
others on request
- Sensor element: piezzo resistive ceramic cell
- Indication: 3-digit LED, 7 mm
- Resolution: up to range 10 bar: 0.01 bar  
up to range 100 bar: 0.1 bar  
up to range 400 bar: 1 bar
- Max. temperature: Media: -20 to +80 °C  
Ambient: -20 to +80 °C
- Max. over pressure: up to 60 bar: 2 times  
from 100 bar: 1.2 times of the range
- Supply voltage: 24 V<sub>DC</sub> ± 20 %
- Power consumption: 40 mA
- Electr. connection: flat plug  
Option: round plug M 12 x 1
- Switching output: PNP or NPN semiconductor,  
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  
Max. 1/32 of range
- Response time: 0.5 sec.
- Accuracy: 0.5 % f. s.
- Protection: IP 65

**Order Details (Example: PDD-153R2 A135)**

Measuring range	Order no. Connection G 1/4 PNP Plug M 12 x 1	Order no. Connection G 1/2 PNP Plug M 12 x 1
-1 to 0 bar	PDD-153R2 C315	PDD-153R4 C315
0 to 1 bar	PDD-153R2 B025	PDD-153R4 B025
0 to 2.5 bar	PDD-153R2 B045	PDD-153R4 B045
0 to 4 bar	PDD-153R2 B055	PDD-153R4 B055
0 to 6 bar	PDD-153R2 B065	PDD-153R4 B065
0 to 10 bar	PDD-153R2 B075	PDD-153R4 B075
0 to 16 bar	PDD-153R2 B085	PDD-153R4 B085
0 to 25 bar	PDD-153R2 A095	PDD-153R4 A095
0 to 40 bar	PDD-153R2 A105	PDD-153R4 A105
0 to 60 bar	PDD-153R2 A115	PDD-153R4 A115
0 to 100 bar	PDD-153R2 A125	PDD-153R4 A125
0 to 160 bar	PDD-153R2 A135	PDD-153R4 A135
0 to 250 bar	PDD-153R2 A145	PDD-153R4 A145
0 to 400 bar	PDD-153R2 A155	PDD-153R4 A155

**Order Details (Example: PDD-253R2 A135)**

Measuring range	Order no. Connection G 1/4 NPN Plug M 12 x 1	Order no. Connection G 1/2 NPN Plug M 12 x 1
-1 to 0 bar	PDD-253R2 C315	PDD-253R4 C315
0 to 1 bar	PDD-253R2 B025	PDD-253R4 B025
0 to 2.5 bar	PDD-253R2 B045	PDD-253R4 B045
0 to 4 bar	PDD-253R2 B055	PDD-253R4 B055
0 to 6 bar	PDD-253R2 B065	PDD-253R4 B065
0 to 10 bar	PDD-253R2 B075	PDD-253R4 B075
0 to 16 bar	PDD-253R2 B085	PDD-253R4 B085
0 to 25 bar	PDD-253R2 A095	PDD-253R4 A095
0 to 40 bar	PDD-253R2 A105	PDD-253R4 A105
0 to 60 bar	PDD-253R2 A115	PDD-253R4 A115
0 to 100 bar	PDD-253R2 A125	PDD-253R4 A125
0 to 160 bar	PDD-253R2 A135	PDD-253R4 A135
0 to 250 bar	PDD-253R2 A145	PDD-253R4 A145
0 to 400 bar	PDD-253R2 A155	PDD-253R4 A155