

**Product Information**

**Sensors and Instrumentation**

**Pressure Switch PAK**



- Repeability
- Adjustable switch point
- Change over contact
- Plug DIN 43650-A / ISO 4400 or Circular plug M12x1

**Characteristics**

Mechanical pressure switch in which a membrane is pre-tensioned by a spring. An adjustment knob permits the setting of the switch point. The setting can be fixed with hexagon socket screw.

**Technical Data**

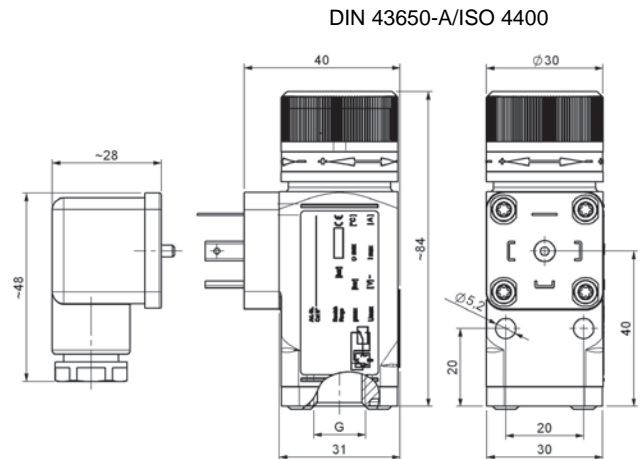
<b>Switch</b>	Mechanical switch	
<b>Process connection</b>	Female thread G <sup>1</sup> / <sub>4</sub>	
<b>Switching range</b>	-0,85..+16 bar	Details see table "Ranges"
<b>Tolerance</b>	±2 % at RT relative to the full scale value	
<b>Pressure resistance</b>	PS 60 bar	
<b>Hysteresis</b>	Switch point/13 + 0,07 [bar] (idealized) vacuum (-0,85..1 bar)	
<b>Media temperature</b>	-10..+80 °C (Viton 0..100°C)	
<b>Ambient temperature</b>	-10..+80 °C	
<b>Media</b>	Water, oil, gases	
<b>Switching frequency</b>	maximum 100 cycles/min.	
<b>Wiring</b>	Plug DIN 43650-A / ISO 4400 Change over No. 0.342	
	Circular plug M12x1, 4-pole Change over No. 0.463	

<b>Switching voltage</b>	Plug DIN 43650-A / ISO 4400
<b>switching current</b>	Resistive load 3 A at 24 V DC, 6 A at 250V AC
<b>(maximum values)</b>	Inductive load 1 A at 24 V DC, 1 A at 250 V AC
	Circuit plug M12x1
	Resistive load 4 A at 48 V AC, 3 A at 24 V DC
	Inductive load 1 A at 48 V AC, 1 A at 24 V DC
<b>Protection class</b>	Plug DIN 43650-A / ISO 44001 1 - PE connection Circuit plug M12x1 2 - safety insulation
<b>Ingress protection</b>	IP 65
<b>Electrical connection</b>	Plug DIN 43650-A/ISO 4400 or Circular plug M12x1
<b>Materials</b>	Housing: Zinc die casting, Adjustment knob: aluminium (powder coated)
<b>Material Sealing /membrane</b>	NBR or EPDM or Viton
<b>Weight</b>	0,29 kg
<b>Installation location</b>	Any mounting position, hydraulic connection to bottom is not advisable.

**Ranges**

Switching range bar (rel.)	Repeatability (20 °C) bar	Type
-0,85..+ 1,00	0,05	PAK-001Z...
+0,20..+ 2,00	0,05	PAK-002Z...
+0,50..+ 8,00	0,20	PAK-008Z...
+1,00..+16,00	0,30	PAK-016Z...

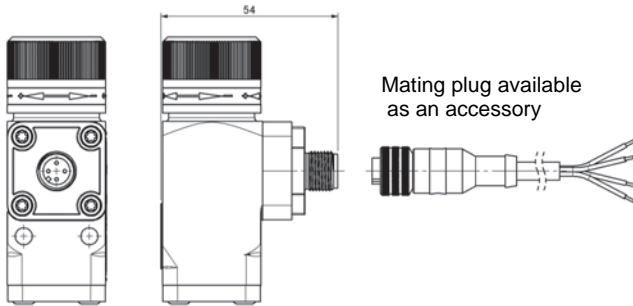
**Dimensions**



**Product Information**

**Sensors and Instrumentation**

Circular plug M12x1



**Handling and operation**

**Notes**

- If the medium is dirty, install a filter.
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- Check resistance to aggressive media, no DI water.

Torques and thread lengths of the fluid connection:  
Thread length 11 mm, tightening torque 20 Nm -25

**Adjustment**

- Turning the adjusting knob to the left for a larger value, turning to the right for a smaller value. After setting the knob can be fixed with a hexagon socket screw by using the supplied key.

**Ordering code**

PAK - 1.  2.  3.  4.  5.  6.   
PAK -  Z  004G  0

<b>1. Switching range</b>	
001	-0.85..+ 1.00 bar
002	+0.20..+ 2.00 bar
008	+0.50..+ 8.00 bar
016	+1.00..+16.00 bar
<b>2. Connection material</b>	
Z	Zinc die casting
<b>3. Connection size</b>	
008G	Female thread G <sup>1</sup> / <sub>4</sub>
<b>4. Rotatable</b>	
0	Fixed
<b>5. Electrical connection</b>	
B	Plug DIN 43650-A / ISO 4400
S	Circular plug M12x1, 4-pole
<b>6. Sealing /membrane</b>	
N	NBR
E	EPDM
V	Viton

**Options**

- Factory setting of the switch point on falling or rising pressure.