

**Product Information**

**Pressure Switch PI**



- High switching power
- Highly reproducible
- Adjustable

**Characteristics**

Mechanical pressure controller in which a membrane is pre-tensioned by a spring. An adjustment screw permits the setting of the spring pre-tension, and therefore of the switching point.

**Technical data**

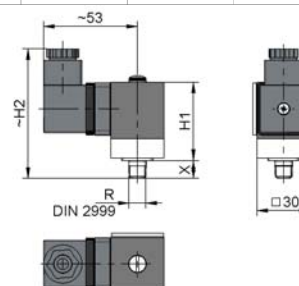
<b>Switch</b>	mechanical switch	
<b>Process connection</b>	male thread R 1/8" ..R 1/4" (further process connections available on request)	
<b>Switching range</b>	0.2..300 bar	For details see table "Ranges"
<b>Tolerance</b>	±0.1..7 bar	
<b>Hysteresis</b>	up to 30 % of set point	
<b>Pressure resistance</b>	PN 60..600 bar	
<b>Media temperature</b>	-5..+60 °C	
<b>Ambient temperature</b>	-5..+60 °C	
<b>Media</b>	water, viscous media, gases	
<b>Wiring</b>	changeover No. 0.280	
<b>Switching voltage</b>	max. 250 V AC	
<b>Switching current</b>	max. 3 A (2 A inductive)	
<b>Switching capacity</b>	100 VA	
<b>Protection class</b>	1 - PE connection	
<b>Ingress protection</b>	IP 65	
<b>Electrical connection</b>	DIN 43650-A plug	
<b>Materials medium-contact</b>	connection R 1/8" : aluminium, NBR, 1.4310	connection R 1/4" : aluminium, NBR, CW614N, 1.4310
<b>Non-medium-contact materials</b>	PA 6.6	
<b>Weight</b>	refer to table "Dimensions and weights"	
<b>Installation location</b>	installation location as desired, switching head not recommended underneath	

**Ranges**

R	Switching range bar (rel.)	PN bar	Tolerance (25 °C) bar	Functional principle	Types
R 1/8 "	0.2 - 5	60	±0.1	Membrane	PI-005A004H
	0.5 - 10	100	±0.2		PI-010A004H
	10.0 - 25		±0.5		PI-025A004H
	25.0 - 80	150	±1.0		PI-080A004H
R 1/4 "	30.0 - 150	600	±7.0	Piston	PI-150A008H
	150.0 - 300				PI-300A008H

**Dimensions and weights**

R	H1	H2	X	Weight kg	Types
R 1/8 "	44	75	10	0.10	PI-...A004H
R 1/4 "	46	78	12	0.22	PI-...A008H



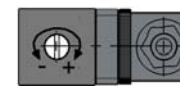
**Handling and operation**

**Note:**

- If the media are dirty, install a filter.
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switch on, a load must be connected in series.

**Adjustment**

- Use the adjustment screw to set the desired switching value.



**Ordering code**

PI -  1.  2.  3.  4.  A  H

Combination option as per the "Ranges" table.

1. Switching range		
005	0.2 - 5 bar	
010	0.5 - 10 bar	
025	10.0 - 25 bar	
080	25.0 - 80 bar	
150	30.0 - 150 bar	
300	150.0 - 300 bar	
2. Connection material		
A	Aluminium	
3. Connection size		
004	thread R 1/8 "	● ● ● ●
008	thread R 1/4 "	● ●
4. Process connection		
H	screw-in thread	

**Options**

- Media temperature -30..+140 °C
- Adjustment