

## Product information

# Pressure switch PAS



- Repeatability
- Adjustable switch point
- Change over contact
- Plug DIN 43650-A / ISO 4400

## Characteristics

Mechanical pressure switch in which a piston 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

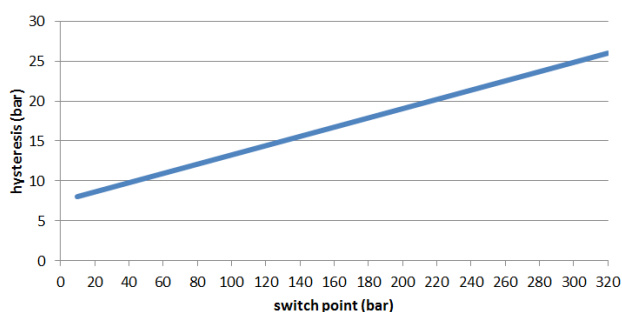
|                            |                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Switch</b>              | Mechanical switch                                                                                                              |
| <b>Process connection</b>  | Male thread G $\frac{1}{4}$ A fixed                                                                                            |
|                            | G $\frac{1}{4}$ A flexible                                                                                                     |
|                            | M10×1 flexible                                                                                                                 |
|                            | Female thread G $\frac{1}{4}$ fixed                                                                                            |
|                            | Flange DIN ISO 163873                                                                                                          |
| <b>Switching range</b>     | 10..320 bar see table "Ranges"                                                                                                 |
| <b>Hysteresis</b>          | see graph "Hysteresis"                                                                                                         |
| <b>Tolerance</b>           | ±2 % at RT relative to the full scale value                                                                                    |
| <b>Pressure resistance</b> | PS 350 bar                                                                                                                     |
| <b>Media temperature</b>   | -20..+80 °C (Viton 0..100°C)                                                                                                   |
| <b>Ambient temperature</b> | -20..+80 °C                                                                                                                    |
| <b>Media</b>               | self-lubricating fluid such as hydraulic oil, lubricating oil, light fuel oil and neutral fluids such as water and some gases. |
| <b>Switching frequency</b> | maximum 100 cycles/min.                                                                                                        |
| <b>Wiring</b>              | Plug DIN 43650-A / ISO 4400<br>Changeover No. 0.342<br>                                                                        |
| <b>Switching voltage</b>   | Resistive load                                                                                                                 |
| <b>switching current</b>   | 4 A at 24 V DC, 6 A at 250V AC                                                                                                 |
| <b>(maximum values)</b>    | Inductive load                                                                                                                 |
|                            | 1 A at 24 V DC, 2 A at 250 V AC                                                                                                |
| <b>Protection class</b>    | 1 – PE – connection                                                                                                            |
| <b>Ingress protection</b>  | IP 65                                                                                                                          |

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| <b>Electr. connection</b>    | Plug DIN 43650-A / ISO 4400                                                 |
| <b>Materials</b>             | Housing: Zinc die casting,<br>Adjustment knob: aluminium<br>(powder coated) |
| <b>Material Sealing</b>      | Static: NBR or EPDM or Viton<br>Dynamic: PTFE                               |
| <b>Weight</b>                | 0,325 kg                                                                    |
| <b>Installation location</b> | Any mounting position, hydraulic connection to bottom is not advisable.     |

## Ranges

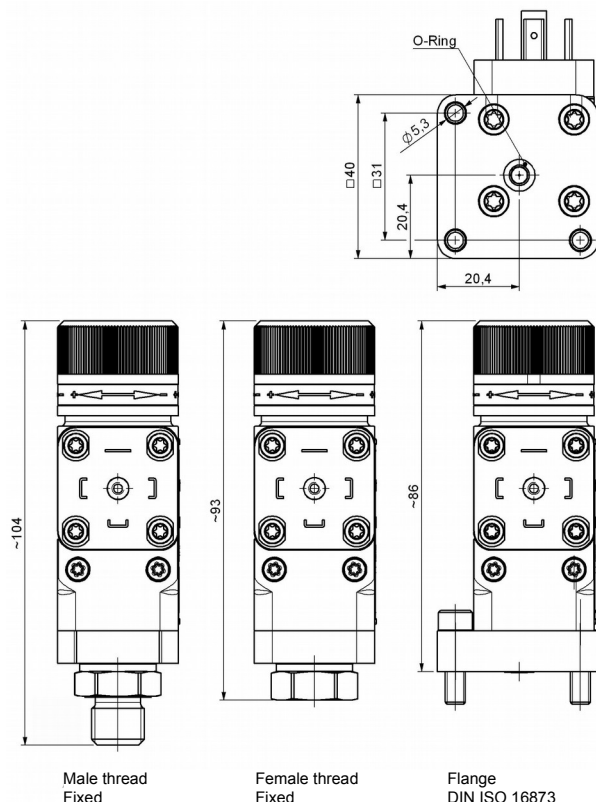
| Switching range<br>bar (rel.) | Type        |
|-------------------------------|-------------|
| 10 - 30                       | PAS-030Z... |
| 10 - 80                       | PAS-080Z... |
| 10 - 120                      | PAS-120Z... |
| 10 - 160                      | PAS-160Z... |
| 20 - 200                      | PAS-200Z... |
| 20 - 250                      | PAS-250Z... |
| 30 - 320                      | PAS-320Z... |

## Hysteresis



## Product information

### Dimensions



### Ordering code

PAS - 1. 2. 3. 4. 5. 6.  
PAS -

#### 1. Switching range

|     |              |
|-----|--------------|
| 030 | 10 - 30 bar  |
| 080 | 10 - 80 bar  |
| 120 | 10 - 120 bar |
| 160 | 10 - 160 bar |
| 200 | 20 - 200 bar |
| 250 | 20 - 250 bar |
| 320 | 30 - 320 bar |

#### 2. Connection material

|   |                  |
|---|------------------|
| Z | Zinc die casting |
|---|------------------|

#### 3. Connection size

|      |               |                                 |
|------|---------------|---------------------------------|
| 008G | Female thread | G <sup>1</sup> / <sub>4</sub>   |
| 008A | Male thread   | G <sup>1</sup> / <sub>4</sub> A |
| 031F | Flange        | DIN ISO 163873                  |
| 009H | Male thread   | G <sup>1</sup> / <sub>4</sub>   |
| 011A | Male thread   | M10×1                           |
| 012H | Male thread   | NPT <sup>1</sup> / <sub>4</sub> |

#### 4. Rotatable (connection pressure site)

|   |           |   |   |   |
|---|-----------|---|---|---|
| 0 | Fixed     | • | • | • |
| 1 | Rotatable | • | • | • |

#### 5. Electrical connection

|   |                                 |
|---|---------------------------------|
| B | For plug DIN 43650-A / ISO 4400 |
|---|---------------------------------|

#### 6. Sealing

|   |         |       |
|---|---------|-------|
| N | Dynamic | NBR   |
| E |         | EPDM  |
| V |         | Viton |

## 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:

G<sup>1</sup>/<sub>4</sub>A, G<sup>1</sup>/<sub>4</sub>, R<sup>1</sup>/<sub>4</sub>, NPT<sup>1</sup>/<sub>4</sub>: 20-25 Nm, 11 mm

M10×1: 15-20 Nm, 10 mm

Flange: 6-8 Nm, 3 washer M5

### 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.

### Options

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