| CPONAP | PRESSURE SWITCH TYPE HED 2 |  | WK |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  | up to 21 MPa |  | 03.2012 |

Pressure switch type HED 2 is used to switch an electrical circuit on and off in relation to the given pressure value of an oil or another operating medium.

## DESCRIPTION OF OPERATION

Increasing pressure is supplied by a dumping tube via connector Stecko 4 sealed with the rubber ring 8 . This pressure affects the bourdon tube 2 causing its deformation. As soon as the set pressure is reached, the bourdon tube actuates the micro switch 3 by means of the attached operating lever. Position of the micro switch and than time of its action may be adjusted steplessly by means of a lockable handknob. Connection of the pressure switch with an external electrical equipment is made by conductors attached to the terminal strip 6 and the gland 7 - in basic version.
The switch is susceptible to vibration and for that reason it is mounted with the buffers 9 .
The pressure switches are designed for the following pressure ranges : 2,5; 6,3; 10; 20 MPa


## TECHNICAL DATA

| Operatin medium | Mineral oil, phosphate ester, gas, air |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Electrical connection with a gland | PG 11 ; max conductor dia = 8 |  |  |  |
| Insulation | Electrical connection with a gland |  |  |  |
|  | IP 55 |  | IP 54 |  |
| Mounting position | Optional <br> Fixing by 2 bolts M5 x $20-5.8$ per PN-85/M - 82215 ( DIN - 384 ) |  |  |  |
| Switching accuracy | $\pm 1$ \% |  |  |  |
| Switching frequency | 30/min |  |  |  |
| Contact loading | AC voltage |  | DC voltage |  |
|  | [ V] | [ A$]$ | [V] | [ A$]$ |
|  | 460 | 10 | $\begin{array}{r} 25 \\ 125 \\ 250 \\ \hline \end{array}$ | $\begin{aligned} & 1.0 \\ & 0.2 \\ & 0.1 \end{aligned}$ |
| Weight | 1 kg |  |  |  |


| Setting ranges [ MPa ] |  |  |  | Fixed switching <br> pressure <br> difference <br> [ MPa ] | Pressure rating <br> [ MPa ] | Maximum <br> operating <br> pressure <br> [ MPa] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Decreasing pressure |  | Increasing pressure |  |  |  |  |
| $\min$ | $\max$ | $\min$ | $\max$ | $\sim 0.05$ | 2.5 | 3 |
| 0.15 | 2.5 | 0.2 | 2.6 | $\sim 0.10$ | 6.3 | 7 |
| 0.4 | 6.3 | 0.5 | 6.4 | $\sim 0.15$ | 10 | 11 |
| 0.6 | 10 | 0.75 | 10.15 | $\sim 0.40$ | 20 | 21 |
| 1 | 20 | 1.4 | 20.4 |  |  |  |

Note: Fixing bolts have to be ordered separately.

## OVERALL AND CONNECTION DIMENSIONS



Overall dimensions and connector
Item 1-o-ring 5.3 $\times 2.4-1$ piece
Item 2 - Dumping tube ( not included)

## Electrical connection



## SCHEMES



Symbol of electrical connections for version Z4L


Simple switching with one HED

## HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer.
The symbols in bold are preferred versions in short delivery time.

$$
=3 x
$$

Series number
(30-39) - niezmienne wymiary przyłącza i zabudowy

$$
\text { series } 31
$$

## Max set pressure

| $2,5 \mathrm{MPa}$ | $=25$ |
| ---: | :--- |
| $6,3 \mathrm{MPa}$ | $=63$ |
| 10 MPa | $=100$ |
| 20 MPa | $=200$ |

$$
=31
$$

Voltage of control light

| $\mathbf{2 4 V}$ | $=\mathbf{2 4}$ |
| ---: | :--- |
| 110 V | $=110$ |
| $\mathbf{2 3 0 V}$ | $=\mathbf{2 3 0}$ |

Electrical connection

| Standard version | $=$ no designation |
| :--- | :--- |
| Control light | $=\mathrm{L}$ |
| Angled plug ISO 4400 without LED | $=\mathrm{Z4}$ |
| Angled plug ISO 4400 with LED | $=\mathrm{Z4L}$ |

