

## Design

Positions are electrically signalized according to switch type:

- open,
- closed or
- open and closed.

LEDs provide optical position indication (except for Namur Exversion).
Mechanical or inductive switches are housed in a compact splashproof enclosure.
The position indicator can be rotated $360^{\circ}$ and is easily fitted to the valve. Trip cams do not require adjustment. The unit only needs to be screwed on and connected to be ready for operation.

- Easily accessible elements and terminals
- No special tools required for installation and disassembly
- Mechanic switches with goldsilver contacts
- Inductive switches in 2- and 3 -wire technology
- Cable access by PG-cable gland or plug connector
- Tag plate for system inscription


## Advantages / Benefits

Simple installation, convertible or retrofittable
$>$ Self-adjusting trip cam for "closed" position
$>$ Cable acess $360^{\circ}$ rotable
-LEDs provide local operational status and position indication

## Compact IP 65 enclosure

## Applications

Pneumatically operated angle seat valves Type 2000 and 2001

Pneumatically operated diaphragm valves Type 2030 and 2031

## Technical Data

## Operating Data

| LED | greenvalve open <br> red <br> yellow <br> valve closed <br> supply voltage "on" <br> (protected against <br> incorrect polarity) <br> Ambient temperature-20 to $+60^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Rating | IP 65 <br> to DIN 40 050 |
| Enclosure material | Polyamide with <br> polycarbonate cover. <br> (Polysulfon cover on request) |

## Limit Switch

Mechanical Limit Switch (silver or gold contacts)
Electrical specification

| at voltage | max. inductive load | max. load resistance |
| :--- | :--- | :--- |
| $125 \mathrm{~V} \approx$ | 8 A | 8 A |
| $250 \mathrm{~V} \approx$ | 8 A | 8 A |
| $24 \mathrm{~V}=$ | 5 A | 5 A |
| $30 \mathrm{~V}=$ | 2 A | 5 A |
| $50 \mathrm{~V}=$ | $0,7 \mathrm{~A}$ | 1 A |
| $74 \mathrm{~V}=$ | $0,25 \mathrm{~A}$ | $0,6 \mathrm{~A}$ |
| $125 \mathrm{~V}=$ | $0,03 \mathrm{~A}$ | $0,4 \mathrm{~A}$ |
| $250 \mathrm{~V}=$ | $0,02 \mathrm{~A}$ | $0,25 \mathrm{~A}$ |

All switches have changeover function.

## Inductive Limit Switch in 2-wire Technology

| Nominal voltage range | 10 to 30 VDC |
| :--- | :--- |
| Acceptable current load | $\leq 100 \mathrm{~mA}$ |
| Current consumption | $\leq 2 \mathrm{~mA}$ |

Inductive Limit Switch in 3-wire Technology

| Nominal voltage range | 10 to 30 V DC |
| :--- | :--- |
| Current load | $\leq 200 \mathrm{~mA}$ |
| Output resistance | $4,7 \mathrm{k} \Omega$ |
| Current consumption | $\leq 25 \mathrm{~mA}$ |
| Contact versions | PNP, NPN |

Inductive Limit Switch to DIN 19234 (NAMUR) Ex i

| Nominal voltage | 8 V DC |  |
| :--- | :--- | :--- |
| Current consumption | damped | $\leq 1 \mathrm{~mA}$ |
|  | undamped | $\geq 3 \mathrm{~mA}$ |

Isolating barrier must be used.

## Installation/Accessories

| Installation | as required |
| :--- | :--- |
| Electrical connection | • PG 11 cable gland, | internal:

- screw terminals on PCB,
- connector cross section up to $1,5 \mathrm{~mm}^{2}$

Electrical Position Feedback

## Ordering Chart

## With Mechanical Limit Switches

| Actuator | Feedback of valve position (ch/over contact) | Item-No. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 110 \mathrm{~V} . .250 \mathrm{~V} \\ & \mathrm{AC} / \mathrm{DC} \end{aligned}$ | $12 \mathrm{~V} \ldots 48 \mathrm{~V}$ <br> AC/DC | $\begin{aligned} & 48 \mathrm{~V} \ldots 110 \mathrm{~V} \\ & \mathrm{AC} / \mathrm{DC} \end{aligned}$ | $\begin{aligned} & 12 \mathrm{~V} \ldots 30 \mathrm{~V} \\ & \mathrm{AC} / \mathrm{DC} \end{aligned}$ |
|  |  | Silver Contacts |  |  | Gold Contacts |
| $50-80 \mathrm{~mm}$ | OPEN | 005415K | 007462 U | 420770 J | 420476 C |
|  | CLOSED | 005409E | 007461T | 420771 F | 420477 D |
|  | OPEN/CLOSED | 005416L | 007463V | 420772 G | 420478 N |
| $100-125 \mathrm{~mm}$ | OPEN | 007459H | 007465X | 420773 H | 420479 P |
|  | CLOSED | 007458G | 007464W | 420774 A | 420480 D |
|  | OPEN/CLOSED | 007460E | 007466Y | 420775 B | 420481 S |

With Inductive Limit Switches:

| Actuator | Feedback <br> of valve position <br> (ch/over contact) | Item-No. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { 10... } 30 \text { VDC } \\ & \text { 2-wire } \end{aligned}$ | $\begin{aligned} & 10 \ldots 30 \text { VDC } \\ & \text { 3-wire PNP } \end{aligned}$ | $\begin{aligned} & 10 . . .30 \text { VDC } \\ & 3 \text {-wire NP N } \end{aligned}$ | 8 VDC, NAMUR Exi 2-wire |
| $50-80 \mathrm{~mm}$ | OPEN | 420788 H | 005434 N | 420782 T | 007471 V |
|  | CLOSED | 420789 A | 005422 J | 420783 U | 007470 G |
|  | OPEN/CLOSED | 420790 F | 005461 Z | 420784 V | 007472 W |
| $100-125 \mathrm{~mm}$ | OPEN | 420791 U | 007468 A | 420785 W | 007474 Y |
|  | CLOSED | 420792 V | 007467 Z | 420786 X | 007473 X |
|  | OPEN/CLOSED | 420793 W | 007469 B | 420787 Y | 007475 Z |

## Accessory

Specification tag
Item-No. 633529 W

## Easy

to convert

Quick and easy conversion to other operating functions.

The electrical position feedback guarantees permanent process control.

Dimensions in mm


| Actuator diameter | A | B |
| :--- | :--- | :--- |
| $ø 50, \varnothing 63, \varnothing 80$ | M26x1,5 | M6 |
| $\varnothing 100, \varnothing 125$ | M36x2 | M10 |

