



## Ex position switch

Ex 61 WHK 1Ö/1S - 3m

Material number: 1179157 (Material number old: 61018301)

### Features/Options:

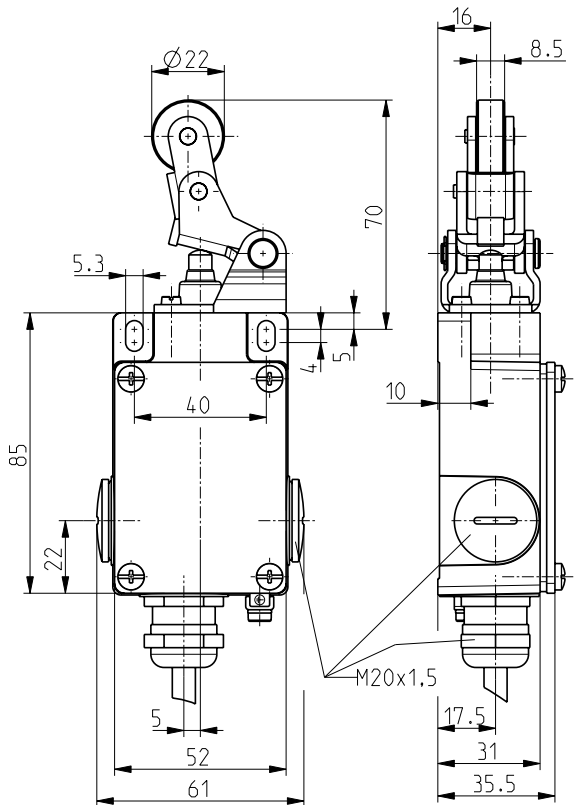
- Ex zone 1 and 21
- Metal enclosure
- With pre-wired cable
- Actuator: Offset roller lever with collar WHK
- Actuating speed max. 0.5 m/s with a vertical actuating angle of  $\alpha$  and  $\beta = 40^\circ$

### Notes

- Actuator can be repositioned by  $4 \times 90^\circ$  on request
- With metal roller available on request

- Actuation only possible from right-hand side
- Free movement of actuator from left-hand side
- Wear-resistant plastic roller
- Watertight collar for protection against penetration of dirt
- Attention: Please state required international approvals with your order!

### Dimensions



### Technical data

|                                           |                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------|
| Applied standards                         | EN 60947-5-1, EN 60079-0, EN 60079-1, EN 60079-31                           |
| Enclosure                                 | aluminium die-cast, powder-coated                                           |
| Cover                                     | steel, powder-coated                                                        |
| Degree of protection                      | IP 65 to IEC/EN 60529                                                       |
| Switch insert                             | 1 x Ex 14                                                                   |
| Contact material                          | silver                                                                      |
| Switching system                          | slow action                                                                 |
| Switching elements                        | 1 NC/1 NO contact, type Zb                                                  |
| Connection                                | pre-wired cable H05VV-F                                                     |
| Cable cross-section                       | 4 x 0.75 mm <sup>2</sup> (incl. conductor ferrules)                         |
| Cable length                              | 3 m                                                                         |
| Rated impulse withstand voltage $U_{imp}$ | 4 kV                                                                        |
| Rated insulation voltage $U_i$            | 250 V                                                                       |
| Conventional thermal current $I_{the}$    | T6: 6 A, T5: 3 A                                                            |
| Rated operating current/voltage $I_e/U_e$ | 6 A/250 VAC, 0.25 A/230 VDC, 3 A/24 VDC, T > 65 °C: 3 A/250 VAC; 4 A/24 VDC |
| Utilisation category                      | AC-15; DC-13                                                                |
| Short-circuit protection                  | 6 A gG/gN fuse                                                              |
| Ambient temperature                       | T6: -20 °C ... +65 °C, T5: -20 °C ... +75 °C, +90 °C with max. 3 A          |

Errors and omissions excepted.



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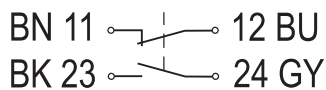
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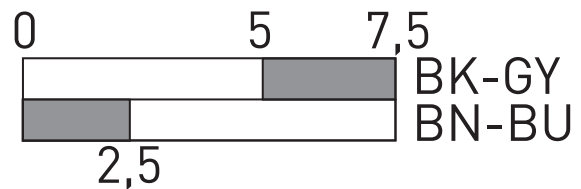
### Technical data

|                                     |                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Mechanical life                     | > 1 million operations                                                                                                        |
| Operation cycles                    | max. 1800/h                                                                                                                   |
| Repeat accuracy of switching points | $\pm 0.1$ mm                                                                                                                  |
| Contact opening                     | max. 2 x 4.5 mm                                                                                                               |
| Impact energy                       | max. 7 J                                                                                                                      |
| Ex marking                          | II 2G Ex db IIC T6/T5 Gb,<br>II 2D Ex tb IIIC<br>T80 °C/T95 °C Db<br>IECEX Ex db IIC T6/T5 Gb,<br>Ex tb IIIC T80 °C/T95 °C Db |
| Approvals                           | PTB 03 ATEX 1070 X *<br>IECEX PTB 06.0098X *<br><sup>US</sup> * referring to the switch insert                                |
| Weight                              | 640 g                                                                                                                         |

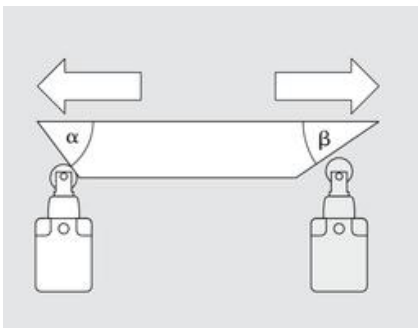
### Contact diagram



### Switching diagram



### Actuating angles



$\alpha$  - Actuating angle from right of switch axis

$\beta$  - Actuating angle from left of switch axis as shown in picture