



Ex position switch with safety function

Ex 13 WHL IÖ/1S - 10m

Material no.: 1045138 (material no. old: 13016914)

Product features

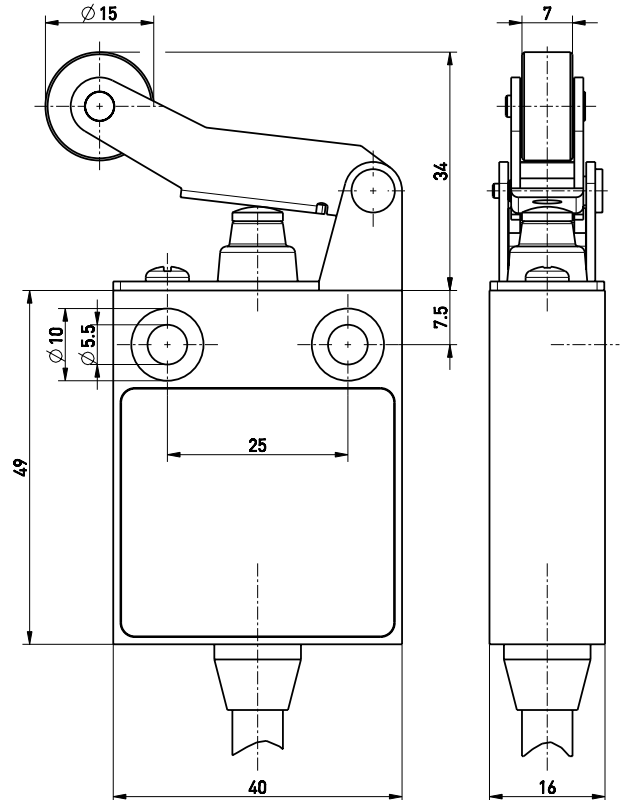


- Ex zone 1 and 21
- Thermoplastic enclosure
- Double insulated
- Suitable for in-line mounting
- With pre-wired cable
- Actuator: Long roller lever with collar WHL
- Actuating speed max. 0.5 m/s with a vertical actuating angle of $\alpha = 40^\circ$ and $\beta = 25^\circ$
- Metal roller
- Watertight collar for protection against penetration of dirt
- Attention: Please state required international approvals with your order!

Notes

- Actuation from the left should be avoided since this reduces the mechanical life of the position switch.
- Actuator can be repositioned by 180° on request
- With plastic roller available on request

Dimensions



Technical data

Applied standards

EN 60947-5-1, EN IEC 60079-0, EN 60079-1, EN 60079-31, EN ISO 13849-1, EN ISO 14119

Enclosure

thermoplastic, glass-fibre reinforced, shockproof, self-extinguishing UL 94 V-0

Switch type

type 1

Coding level

no coding

Degree of protection

IP65 (EN 60079-0 + IEC/EN 60529), IP67 (IEC/EN 60529)

B_{10d} (10 % load)

2 million

T_M

max. 20 years

Contact material

silver

Switching system

slow action, positive break NC contacts

Switching elements

1 NC/1 NO contact, type Zb

Connection

pre-wired cable H05VV-F

Cable cross-section

4 x 0.75 mm² (incl. conductor ferrules)

Cable length

10 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

Errors and omissions excepted.



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Technical data (contd.)

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

Mechanical life

> 1 million operations

Operation cycles

max. 1800/h

Repeat accuracy of switching points

± 0.1 mm

Contact opening

max. 2 x 4 mm

Impact energy

max. 7 J

Ex marking

Ⓔ II 2G Ex db IIC T6/T5 Gb,

Ⓔ II 2D Ex tb IIIC T80 °C/T95 °C Db

IECEX Ex db IIC T6/T5 Gb,

Ex tb IIIC T80 °C/T95 °C Db

Approvals

PTB 03 ATEX 1068 X

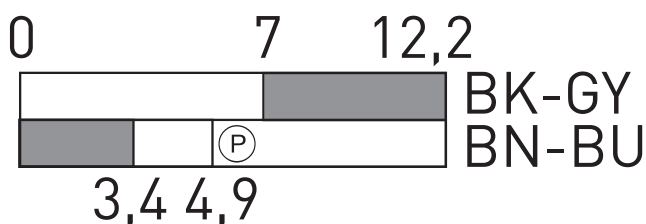
IECEX PTB 06.0053X



Weight

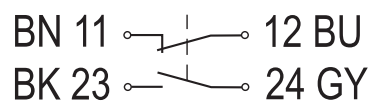
840 g

Switching diagram

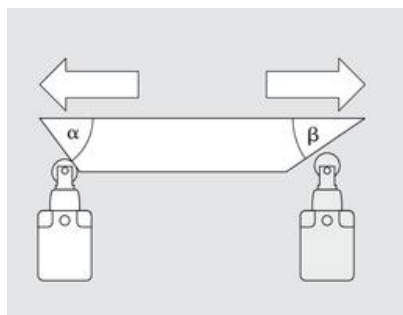


Ⓟ Positive break travel/angle

Contact diagram



Actuating angles



α - Actuating angle from right of switch axis

β - Actuating angle from left of switch axis as shown in picture

Errors and omissions excepted.