



## Ex position switch with safety function Ex ES 97 WH-11 -60°C Material no.: 1336662

### Product features

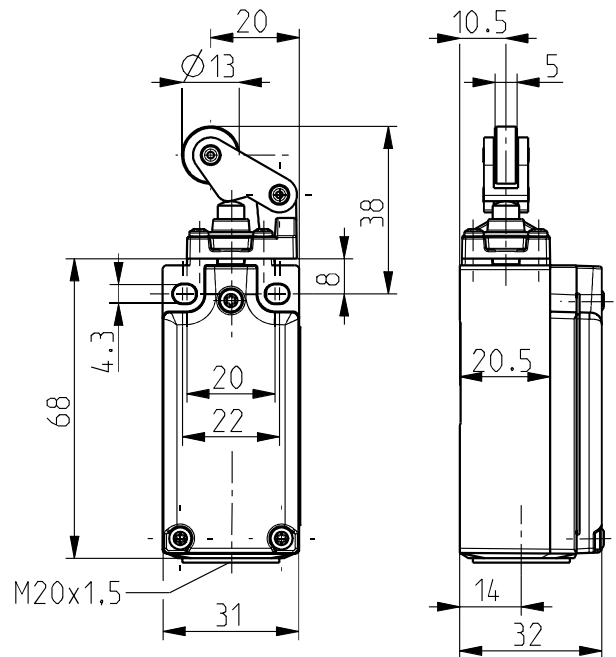


- Ex zone 1 and 21
- Thermoplastic enclosure
- Cold-resistant down to -60 °C
- High degree of protection IP66 / IP67 / IP69
- Design to EN 50047
- Wiring compartment
- Double insulated
- Actuator: Roller lever with collar WH

#### Notes

- 1 Ex"e" cable gland M20x1.5 included in delivery

### Dimensions



### Technical data

#### Applied standards

EN 60947-5-1, EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN 60079-31, EN ISO 13849-1, EN ISO 14119

#### Enclosure

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

#### Cover

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

#### Sealing

silicone

#### Switch type

type 1

#### Coding level

no coding

#### Tightening torque

cover screws: 0.4 ... 0.45 Nm

#### Degree of protection

IP66 to EN 60079-0 + IEC/EN 60529 (... -60 °C)  
IP67 to EN 60079-0 + IEC/EN 60529 (... -20 °C)  
IP67 / IP69 to IEC/EN 60529  
IP69K to ISO 20653

#### B<sub>10d</sub> (10 % load)

2 million

#### T<sub>M</sub>

max. 20 years

#### Contact material

Silver, nickel-plated

#### Switching system

slow action, positive break NC contacts

#### Switching elements

1 NC/1 NO contact, type Zb

#### Connection

screw connection terminals

#### Cable cross-section

min. 0.75 mm<sup>2</sup> (AWG 18), max. 1.5 mm<sup>2</sup> (AWG 16), incl. conductor ferrules

#### Cable entry

M20 x 1.5; screwing depth max. 9 mm; use only Ex approved and certified cable glands with min. degree of protection IP66 and suitable for the specified ambient temperature range

#### Clamping range

7 ... 12 mm

Errors and omissions excepted.



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### Technical data (contd.)

#### Utilisation category

AC-15

#### Rated operating current $I_e$

max. 2 A or 4 A 

#### Rated operating voltage $U_e$

max. 500 VAC, max. 250 VAC for unequal potential

#### Degree of pollution

3

#### Mechanical life

> 1 million operations

#### Impact energy

max. 7 J

#### Temperature class

T6

#### Ambient temperature

-60 °C ... +55 °C max. 4 A, +60 °C max. 2 A

#### Short-circuit protection

2 A / 4 A gG/gN fuse

#### Ex marking

 II 2G Ex db eb IIC T6 Gb,

 II 2D Ex tb IIIC T80 °C Db

IECEX Ex db eb IIC T6 Gb,

Ex tb IIIC T80 °C Db

#### Approvals

BVS 16 ATEX E 052

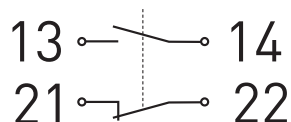
IECEX BVS 16.0052



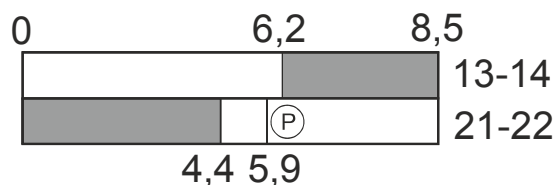
#### Weight

102 g

### Contact diagram



### Switching diagram



Ⓟ Positive break travel/angle