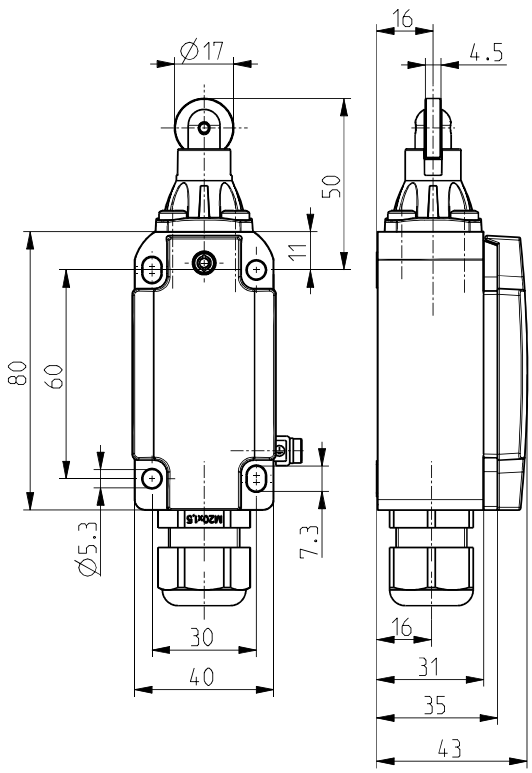
Ex position switch with safety function
Ex ES 98 R-11 -40°C
Article no.: 1400709

Product features

- Ex zone 1 and 21
- Cold-resistant down to -40 °C
- Metal enclosure with wiring compartment
- Design to EN 50041
- Actuator: Roller plunger R
- Actuator type C to EN 50041
- Actuator can be repositioned by 4 x 90°
- Attention: Please state required international approvals with your order!

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
aluminium die-cast, corrosion-resistant, powder-coated, anthracite grey, similar to RAL 7016

Cover
stainless steel 1.4401, powder-coated, signal yellow, similar to RAL 1003

Sealing
silicone

Switch type
type 1

Coding level
no coding

Degree of protection
IP66 (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
screw connection terminals, use copper conductors only

Cable cross-section
min. 0.75 mm² (AWG 18), max. 1.5 mm² (AWG 16), incl. conductor ferrules

Cable entry
1 x M20 x 1.5 (for cable glands only)

Clamping range
7 ... 13 mm (without reduction sealing insert)
4 ... 8 mm (with reduction sealing insert)

Errors and omissions excepted.

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Technical data (contd.)

Rated impulse withstand voltage U_{imp}
4 kV

Rated insulation voltage U_i
250 V

Rated operating current I_e
max. 4.4 A (T6) / max. 6.6 A (T5)

Rated operating voltage U_e
max. 250 VAC; 125 VDC

Utilisation category
AC-15; DC-12

Short-circuit protection
4 A /6 A gG fuse

Ambient temperature
–40 °C ⋯ +70 °C

Mechanical life
> 1 million operations

Actuating speed
max. 0.5 m/s with a vertical actuating angle of 30°

Operation cycles
max. 1800/h

Repeat accuracy of switching points
± 0.1 mm

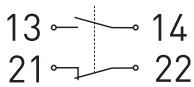
Impact energy
max. 7 J

Ex marking
Ⓔx II 2G Ex db eb IIC T6/T5 Gb,
Ⓔx II 2D Ex tb IIIC T80°C/T95°C Db

Approvals
DMT 01 ATEX E 178
IECEx BVS 07.0014
Japan: CML 25JPN1034

Weight
299 g

Contact diagram



Switching diagram

Ⓟ Positive break travel/angle

Errors and omissions excepted.