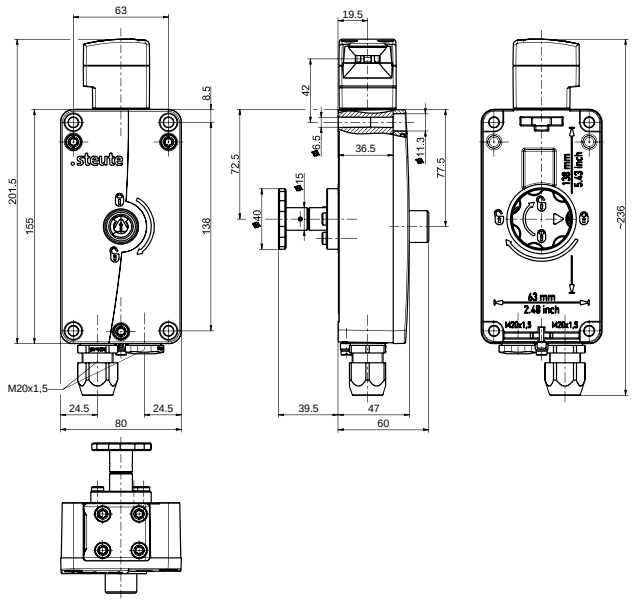
Ex solenoid interlock
Ex STM 515 11/11 R TB/FE L
Material no.: 1298837

Product features

- Ex zone 1 and 21
- High degree of protection IP66
- Corrosion-resistant aluminium enclosure
- Wiring compartment
- Spring-to-lock principle
- Actuator head can be repositioned by 4 x 90°
- TB: Escape release back side (release by turning with a handwheel)
- FE: Auxiliary release front side (release by turning with a triangular key M5)

Notes
- The actuator is not included in the delivery of the switches
- 1 additional cable gland M20x1.5 is included in delivery

Dimensions



Technical data

Applied standards
EN 60947-5-1, EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-18, EN 60079-31, EN ISO 14119, EN ISO 13849-1

Enclosure
aluminium die-cast, corrosion-resistant, powder-coated, shock-proof, passivated, anthracite grey, similar to RAL 7016

Cover
aluminium die-cast, corrosion-resistant, powder-coated, shock-proof, passivated, signal yellow, similar to RAL 1003

Actuator head
thermoset, glass-fibre reinforced, shock-proof, self-extinguishing UL 94 V-0

Screws
stainless steel

Switch type
type 2

Coding level
low coding

Tightening torque
cover screws: max. 2.5 Nm

Degree of protection
IP66 (EN 60079-0 + IEC/EN 60529)

B_{10d} (10 % load)
2 million

T_M
max. 20 years

Mounting
4 x M6 cylinder head screw (e.g. DIN 912 / ISO 4762)

Mounting position
possible

Safety class
I

Switching system
slow action, positive break NC contacts ⊖

Switching elements
1 NC/1 NO contact + 1 NC/1 NO contact, type Zb

Switch insert
2 x Ex 95

Contact material
silver

Connection
screw connection terminals

Cable cross-section
min. 0.34 mm² (AWG 22), max. 1.5 mm² (AWG 16)

Clamping range
7 ⋯ 12 mm

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Technical data (contd.)

Cable entry
2 x M20 x 1.5

Rated insulation voltage U_i
250 V

Rated impulse withstand voltage U_{imp}
4 kV

Conventional thermal current I_{the}
6 A

Conditional short-circuit current
1000 A

Utilisation category
AC-15; DC-13

Rated operating current/voltage I_e/U_e
enabling/signalling contacts: 6 A/250 VAC; 0.25 A/230 VDC;
direct-current solenoid: 0.08 A / 24 VDC +10 %/–15 %

Short-circuit protection
6 A gG/gN fuse;
direct-current solenoid: 2 A (slow blow)

Power consumption
<2.5 W (continuous operation), max. 47 W (for 250 ms)

Locking force F_{max}
5500 N

Locking force F_{Zh}
4000 N

Actuating speed V
≤ 0.3 m/s

Actuating force / Latching force
≥ 40 N (retraction and extension of actuator)

Operation cycles
max. 900/h

Mechanical life
1 million operations

Impact energy
max. 7 J

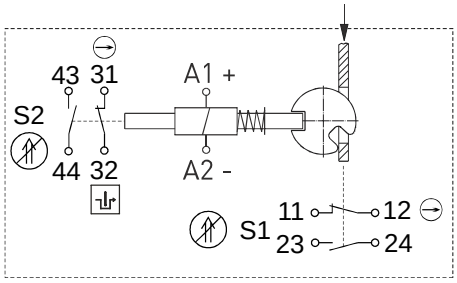
Ambient temperature
–20 °C ⋯ +55 °C

Degree of pollution
3

Ex marking
⟨Ex⟩ II 2G Ex db eb mb IIC T4 Gb,
⟨Ex⟩ II 2D Ex tb IIIC T100 °C Db
IECEx Ex db eb mb IIC T4 Gb,
Ex tb IIIC T100 °C Db

Approvals
in preparation

Contact diagram



⊖ positive break
⇑ actuated
⇓ not actuated
monitoring of the guard-lock to EN ISO 14119

Errors and omissions excepted.