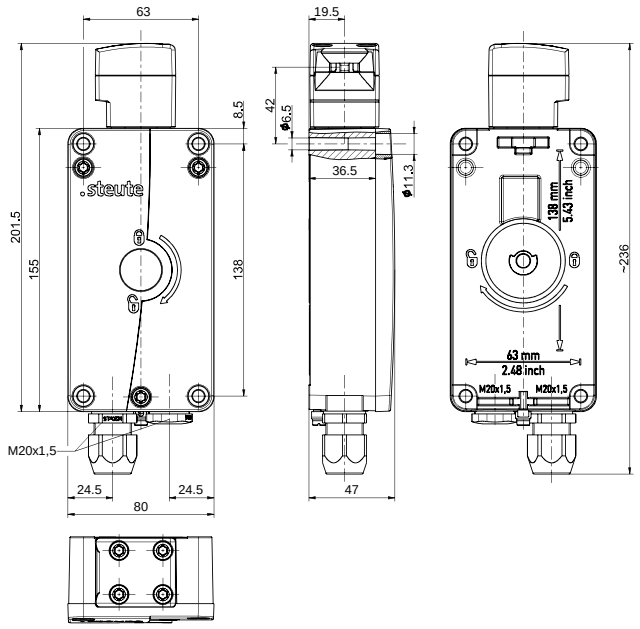
# Ex solenoid interlock
# Ex STM 515 11/11 A L
# Material no.: 1210232

## Product features

- Ex zone 1 and 21
- High degree of protection IP66
- Corrosion-resistant aluminium enclosure
- Wiring compartment
- Power-to-lock principle
- Actuator head can be repositioned by 4 x 90°

**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 IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN 60079-18, EN 60079-31, EN ISO 14119, EN ISO 13849-1

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

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

**Actuator head**
thermoset, glass-fibre reinforced, shockproof, 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
enclosure mounting screws: 8 Nm
switch inserts M3 screw connection terminals: min. 0.6 Nm
solenoid M3.5 screw connection terminals: min. 0.8 Nm

**Degree of protection**
IP66/IP67 (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

Errors and omissions excepted.

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## Technical data (contd.)

Cable cross-section
solenoid: 0.2 ⋯ 1.5 mm² (AWG 24 ⋯ 16)
switch inserts: 0.75 ⋯ 1.5 mm² (AWG 18 ⋯ 16)

Clamping range
7 ⋯ 12 mm

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

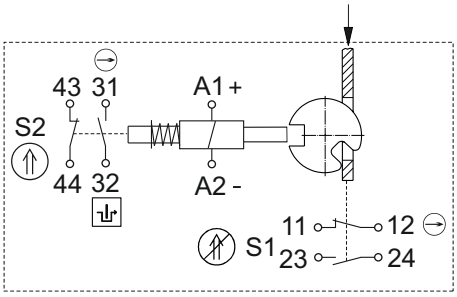
Ambient temperature
–20 °C ⋯ +55 °C

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

Approvals
BVS 23 ATEX E 025 X
IECEx BVS 23.0013X

## Contact diagram




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