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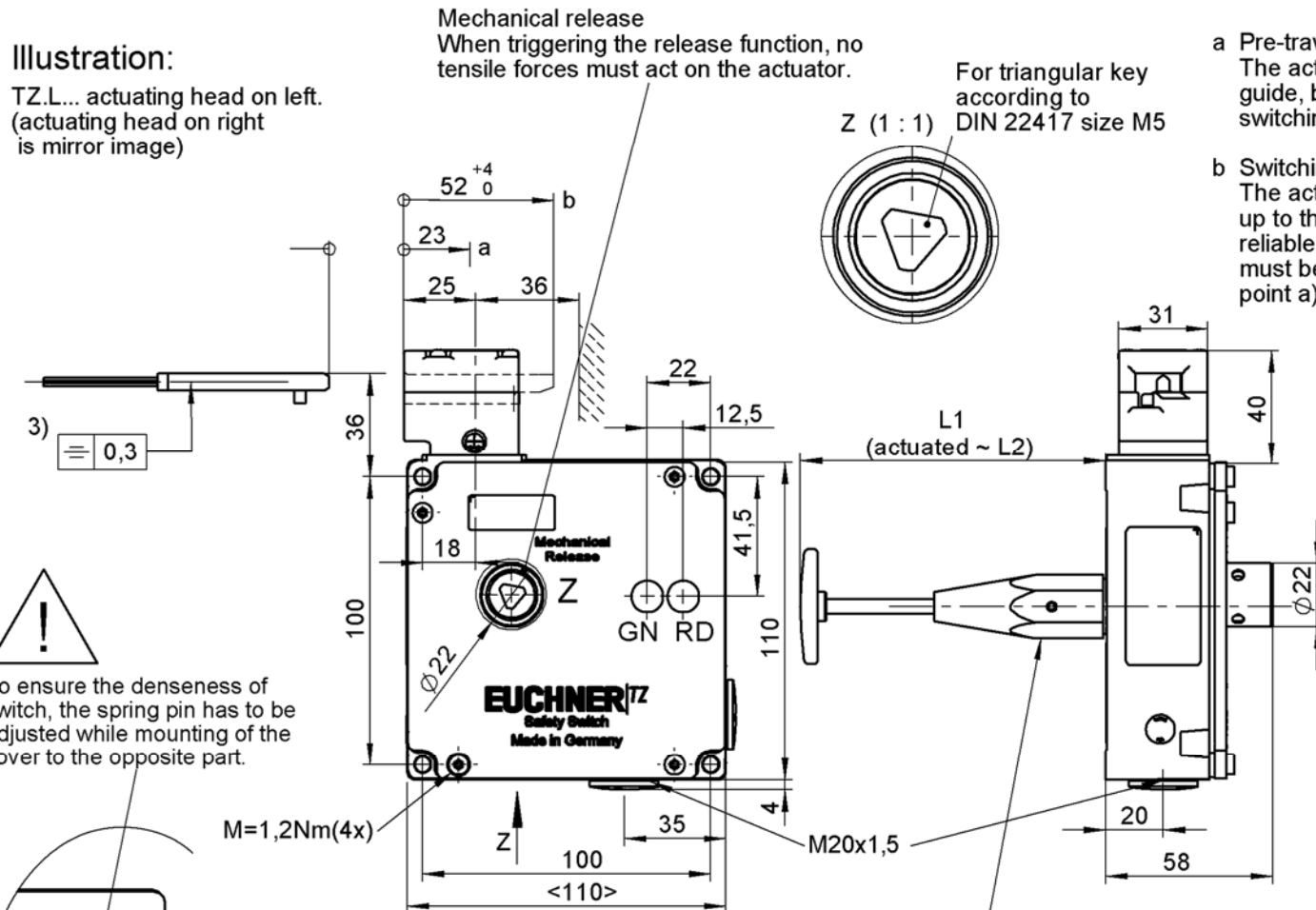
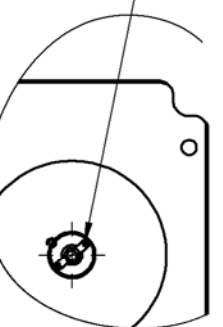
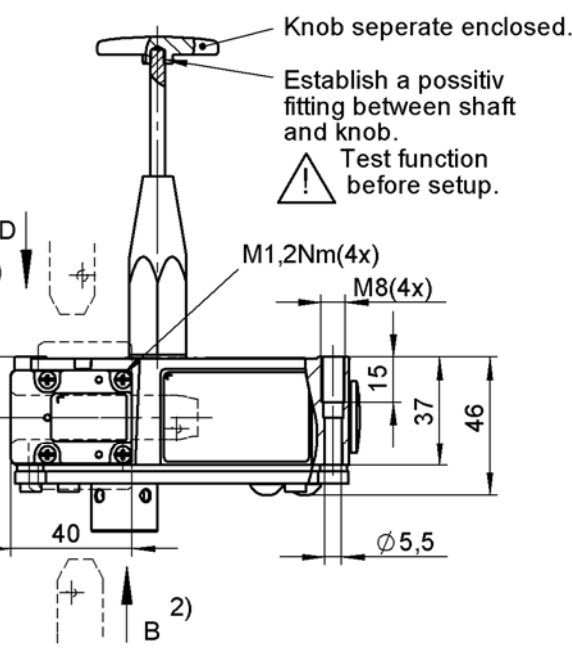


Illustration:
TZ.L... actuating head on left.
(actuating head on right is mirror image)

To ensure the denseness of switch, the spring pin has to be adjusted while mounting of the cover to the opposite part.



M=1,2Nm(4x)



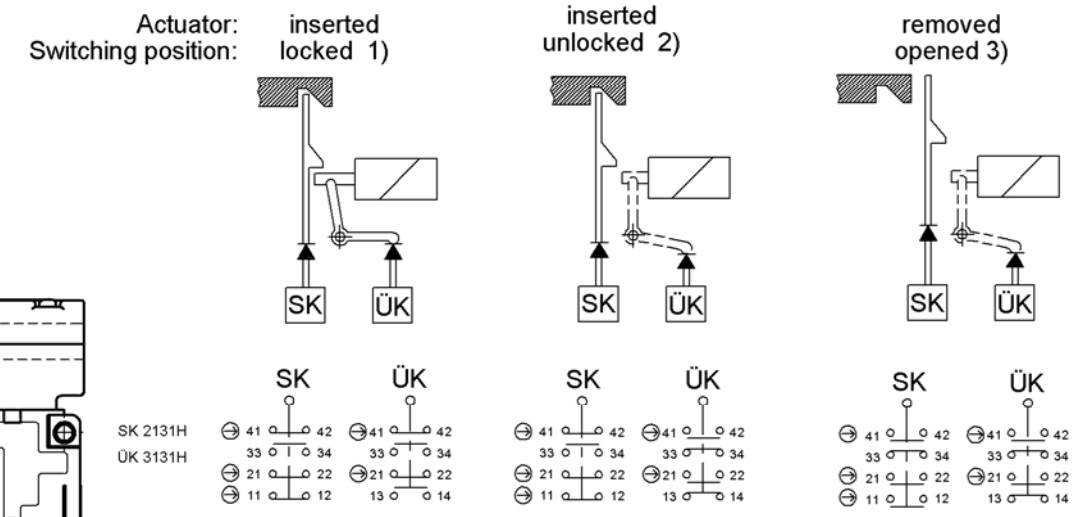
- a Pre-travel:
The actuator is in the guide, but does not initiate switching operation.
- b Switching operation complete:
The actuator must be inserted up to this point to ensure reliable switching. The actuator must be withdrawn at least to point a) for switching off.

Quick release
When triggering the release function, no tensile forces must act on the actuator.
The release is self resetting and not halting, therefore a use as emergency release is not allowed.

- 1) Please order actuator separately
- 2) The actuator head can be turned to the desired approach direction after undoing the fixing screws.
- 3) For mounting on the machine the safety switch and the actuator have to be assembled

It is not allowed to use safety switch as a mechanical stop

Switching principle



TZ1: Unlocking by applying voltage
TZ2: Locking by applying voltage

ÜK = control circuit
SK = safety circuit

Technical Data. Please observe the technical instructions (in case of disagreement between data sheet and operating instructions, the information of the data sheet are to be considered)

| Parameter | Value | Unit |
|--|--|-------|
| Housing material | Anodized die-cast alloy | |
| Environmental protection to IEC 60529 | IP65 | |
| Mechanical operations of the switch | 1 x 10 ⁶ | |
| Mechanical operations of the releases | need to be evaluated by a endurance test | |
| Ambient temperature | -25 bis +80 | °C |
| Mounting position | optional | |
| Approach speed max. | 20 | m/min |
| Actuating-, Extraction-, Retaining force | 35 / 30 / 10 | N |
| Locking force max. | 2000 | N |
| Locking force according to test principle GS-ET-19 | 1500 | N |

| SWITCH ELEMENT | |
|--|---|
| Type | SK2131H, ÜK3131H |
| Switching principle | Slow action |
| Contact material | Silver alloy, gold-flashed |
| Terminal | M20x1,5 |
| Cable cross section max. | 1,5 mm ² |
| Rated insulation voltage Ui | 250 V |
| Rated impulse withstand voltage Uimp | 2,5 kV |
| Utilization category to IEC / EN 60 947-5-1 | AC-15 le 4A Ue 230V DC-13 le 4A Ue 24V |
| Switching voltage min. at 10mA | 12 V |
| Switching current min. at 24V | 1 mA |
| Short-circuit protection according to IEC 60269- | 4A gG |

| SOLENOID | |
|-----------------------------|-------|
| Operating voltage, see type | 24 V= |
| ON time | 100 % |
| Connected load | 7 W |

Status LEDs: The operating voltage of the LEDs correspond to the supply voltage of the solenoid

| 115913 | TZ1RE024MVAB-C2381 | 24V | 75 | 69 |
|--------|--------------------|-------------------|-----|-----|
| 115914 | TZ1LE024MVAB-C2381 | 24V | 75 | 69 |
| 115599 | TZ1RE024MVAB-C2372 | 24V | 106 | 100 |
| 115600 | TZ1LE024MVAB-C2372 | 24V | 106 | 100 |
| ID-No. | Type | Operating voltage | L1 | L2 |