



## Safety interlock ZS

The slim design of the ZS safety interlock offers numerous mounting options.

### Product characteristics

- 8 possible approach directions
- Supporting release enables the unlocking of the guard locking function in the event of a fault
- Three cable entries for flexible connection options
- Matching cable gland 354000 for simple installation
- Selection of ZB actuators suitable for any application

### Accessories available as an option:

Override key lock, insertion funnel, bolt, screw connection and deadbolt.

### Actuator for safety interlocks:

ZBG5M straight without rubber bushing ( $R \geq 300\text{mm}$ )  
ZBG5G straight with rubber bushing ( $R \geq 300\text{mm}$ )  
ZBA5G angled with rubber bushing ( $R \geq 300\text{mm}$ )  
ZBG5GE straight with rubber bushing (with insertion funnel, overrun 5 mm)  
ZBA5GE angled with rubber bushing (with insertion funnel, overrun 5 mm)

### Hinged actuator for safety interlocks:

ZBU5M hinged actuator, approach direction top / bottom ( $R \geq 200\text{mm}$ )  
ZBL5M hinged actuator, approach direction left / right ( $R \geq 100\text{mm}$ )  
ZBU5ME hinged actuator, approach direction top / bottom (with insertion funnel, overrun 5 mm,  $R \geq 200\text{mm}$ )  
ZBL5ME hinged actuator, approach direction left / right (with insertion funnel, overrun 5 mm,  $R \geq 100\text{mm}$ )

Technical drawing

IMAGE 1/3

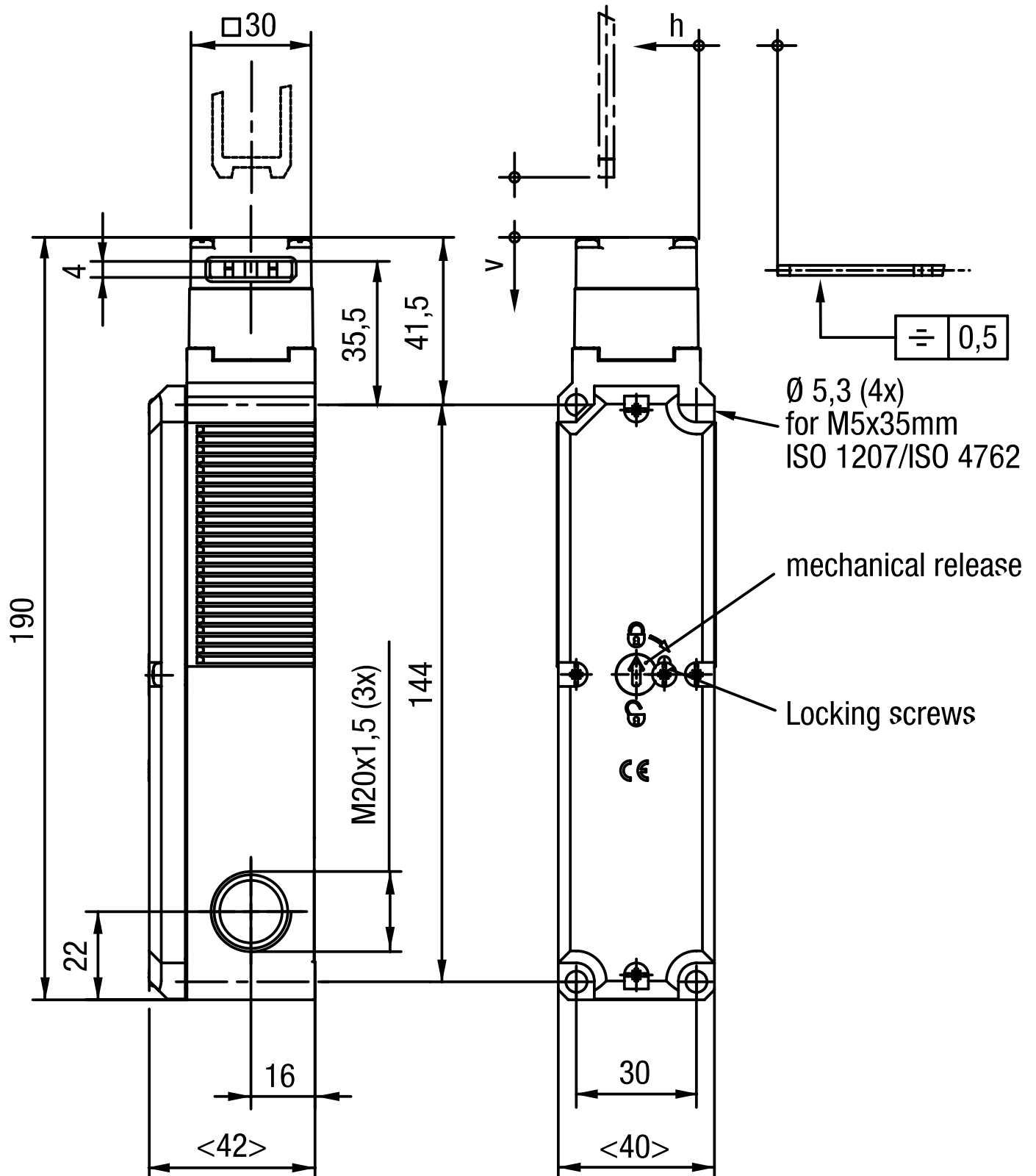


IMAGE 2/3

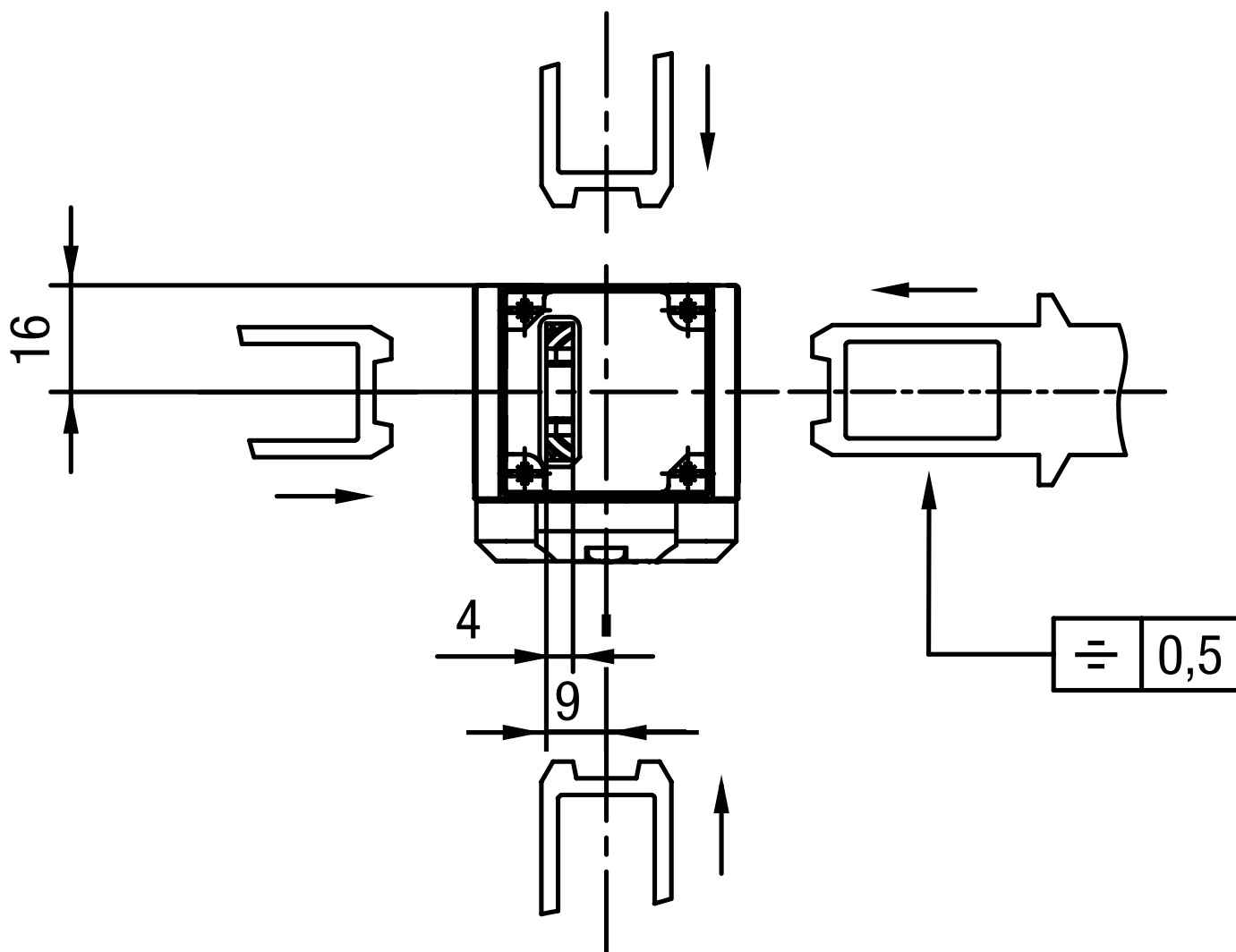
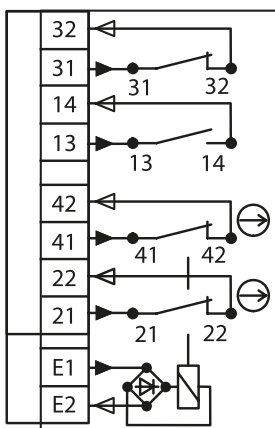


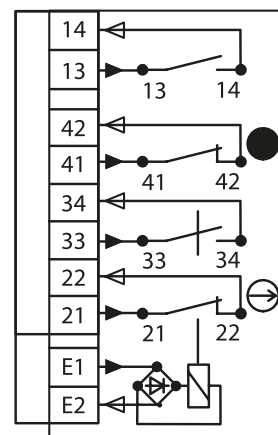
IMAGE 3/3

## Contact form

ZSR 1121 R  
ZSA 1121 R



ZSR 1220 R  
ZSA 1220 R

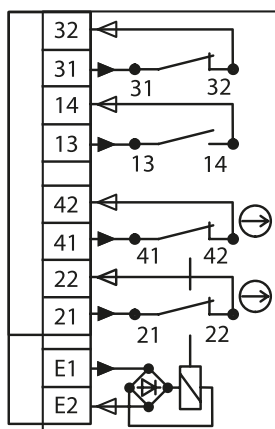


## Product options

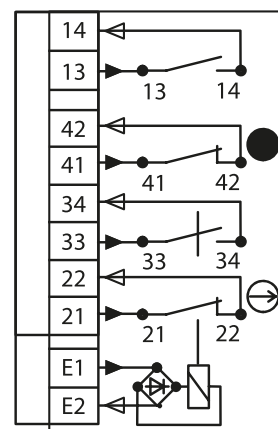
IMAGE 1/1

### Contact form

ZSR 1121 R  
ZSA 1121 R



ZSR 1220 R  
ZSA 1220 R



## Article characteristics

| Attribute  | ZSA1121R                     | ZSA1220R | ZSR1121R | ZSR1220R |
|--|------------------------------|----------|----------|----------|
| Min. switching voltage   | 24 V DC                      |          |          |          |
| Min. switching voltage   | 24 V AC                      |          |          |          |
| Min. switching current   | 1 A                          |          |          |          |
| Conv. thermal continuous current Ith                           | 4 A                          |          |          |          |
| Utilization category   | AC-15 4A 230V / DC-13 4A 24V |          |          |          |
| Rated insulation voltage (Ui)                                  | 250 V                        |          |          |          |
| Rated impulse withstand voltage (Uimp)                         | 2500 V                       |          |          |          |
| Magnet operating voltage +10%/-15%                             | 24 V AC/DC                   |          |          |          |
| Power consumption  | 8 W                          |          |          |          |
| Power-on time ED   | 100 %                        |          |          |          |
| Open-circuit principle   | yes                          |          | -        |          |
| Closed-circuit principle                                       | -                            |          | yes      |          |
| Switching principle  | Slow-action switch           |          |          |          |
| Short-circuit protection in accordance with IEC 60269-1 (fuse) | 4 A gG                       |          |          |          |
| Conditional short circuit current                              | 100 A                        |          |          |          |
| Pollution degree   | 3                            |          |          |          |
| B10d acc. to EN ISO 13849-1                                    | 5000000                      |          |          |          |
| Type acc. to EN ISO 14119                                      | 2                            |          |          |          |
| Mission time in years  | 20 a                         |          |          |          |
| Service life, mechanical (Cycles)                              | 1 x 10^6                     |          |          |          |
| Dimensions   | 42 x 40 x 190 mm (H/B/T)     |          |          |          |
| Emergency release present                                      | no                           |          |          |          |
| Auxiliary unlocking device present                             | yes                          |          |          |          |
| Emergency unblocking present                                   | no                           |          |          |          |
| Locking force Fmax   | 2500 N                       |          |          |          |
| Locking force FzH  | 2000 N                       |          |          |          |
| Immersion depth  | 24.5 mm                      |          |          |          |
| Overrun max.   | 5 mm                         |          |          |          |

| Attribute  | ZSA1121R                                    | ZSA1220R | ZSR1121R | ZSR1220R |
|--|---|----------|----------|----------|
| Number of N.C. door position                     | 1   | 0        | 1        | 0        |
| Number of N.O. door position                     | 1   |          |          |          |
| Number of interlocks guard locking               | 2   |          |          |          |
| Number of N.O. guard locking                     | 0   | 1        | 0        | 1        |
| Number of interlocks door position               | 0   |          |          |          |
| Operating speed max.                             | 20 m/min                                    |          |          |          |
| Actuation frequency                              | 1200 1/h                                    |          |          |          |
| Actuation force/attraction force/retention force | 35 / 30 / 20 N                              |          |          |          |
| Housing material                                 | Glasfaserverstaerkter Thermoplast           |          |          |          |
| Housing colour                                   | Gehaeuse schwarz / Deckel gelb              |          |          |          |
| Contact material                                 | Silberlegierung hauchvergoldet              |          |          |          |
| Protection class                                 | IP67 DIN EN 60529                           |          |          |          |
| Operating temperature min.                       | -20 °C                                      |          |          |          |
| Max. operating temperature                       | 50 °C                                       |          |          |          |
| Min. storage temperature                         | -20 °C                                      |          |          |          |
| Max. storage temperature                         | 50 °C                                       |          |          |          |
| Mounting type                                    | screwed                                     |          |          |          |
| Weight   | 500 g                                       |          |          |          |
| Installation                                     | arbitrary                                   |          |          |          |
| Connection type                                  | 3 x M20 x 1,5 Kabelverschraubung            |          |          |          |
| Min. connection cross section                    | 0.34 mm²                                    |          |          |          |
| Max. connection cross section                    | 1.5 mm²                                     |          |          |          |
| Certified in accordance with                     | EN ISO 60947-5-1 GS-ET-19 UL 508 / CSA 22.2 |          |          |          |
| CE label   | yes   |          |          |          |