



## Chave de segurança com travamento ZM

A chave de segurança com travamento elobau modelo ZM é ideal para montagem em áreas com espaço restrito devido à seu design compacto.

### Especificação Técnica

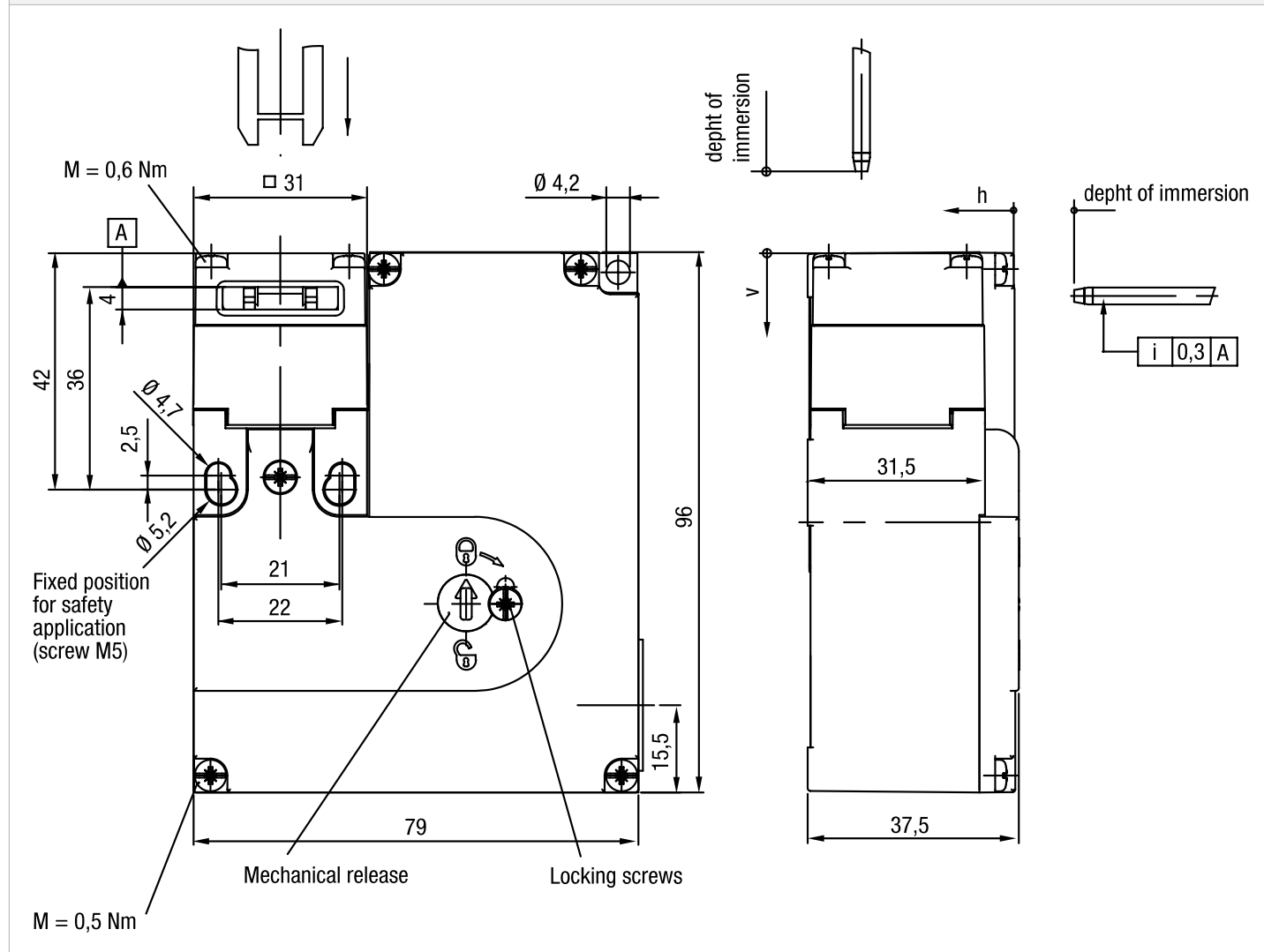
- 7 direções de acionamento
- Fácil montagem – 3 opções de entrada de cabos
- Diversas opções de travas mecânicas modelo ZB

### Modelos de travas compatíveis:

ZBG5M  
ZBG5G  
ZBA5G  
ZBG5GE  
ZBA5GE ZBU5M  
ZBL5M  
ZBU5ME  
ZBL5ME

Desenho técnico

IMAGE 1/3



Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and assembly details.

**Dimensions:**

- Overall width: 20,5
- Overall height: 16
- Distance from top edge to first hole center: 9
- Distance between hole centers: 4
- Distance from right edge to hole center: 10,5
- Distance from right edge to bottom edge: 15,5

**Assembly Details:**

- Four screws (M4) are used for mounting, indicated by the text "Protection against twisting for screw M4".
- A screw (M 20 x 1,5) is used for adjustment, indicated by the text "M 20 x 1,5".
- A dimension of 0,3 B is indicated for a specific feature.

The diagram shows a three-phase power supply system. On the left, a vertical bar represents the power source with terminals labeled SK (top) and ÜK (middle). Below these are terminals E1 and E2. The SK terminals are 22, 21, 12, and 11. The ÜK terminals are 12 and 11. A three-phase switch (SK) is connected to the SK terminals. It has two positions: a closed position (indicated by a circle with a dot) and an open position (indicated by a circle with a cross). The switch is connected to a three-phase motor (represented by a circle with a cross) and a three-phase transformer (represented by a circle with a cross). The transformer has terminals 11 and 12. The motor has terminals 11 and 12. The transformer is connected to a three-phase switch (ÜK) which is also in a closed position. The switch is connected to a three-phase motor (represented by a circle with a cross) and a three-phase transformer (represented by a circle with a cross). The transformer has terminals 11 and 12. The motor has terminals 11 and 12. The transformer is connected to a three-phase switch (ÜK) which is also in a closed position. The switch is connected to a three-phase motor (represented by a circle with a cross) and a three-phase transformer (represented by a circle with a cross). The transformer has terminals 11 and 12. The motor has terminals 11 and 12.

## Product options

IMAGE 1/1

### ORDERING KEY

| ZM |   |      |   | Safety interlock   |
|----|---|------|---|--|
|    | R |      |   | Spring force locked / closed-circuit principle                         |
|    | A |      |   | Magnetically locked / open-circuit principle                           |
|    |   | 1030 |   | 24 V AC/DC operating voltage for magnet / 3 force-guided N.C.          |
|    |   | 1120 |   | 24 V AC/DC operating voltage for magnet / 1 N.O. / 2 force-guided N.C. |
|    |   |      | V | Approach direction front   |

## Características do artigo

| Attribute  | ZMA1030V                     | ZMA1120V | ZMR1030V | ZMR1120V |
|--|------------------------------|----------|----------|----------|
| 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  | 6 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                                    | 2000000                      |          |          |          |
| Type acc. to EN ISO 14119                                      | 2                            |          |          |          |
| Mission time in years  | 20 a                         |          |          |          |
| Service life, mechanical (Cycles)                              | 1 x 10^6                     |          |          |          |
| Dimensions   | 37,5 x 79 x 96 mm (H/B/T)    |          |          |          |
| Emergency release present                                      | no                           |          |          |          |
| Auxiliary unlocking device present                             | yes                          |          |          |          |
| Emergency unblocking present                                   | no                           |          |          |          |
| Locking force Fmax   | 2000 N                       |          |          |          |
| Locking force FzH  | 1500 N                       |          |          |          |
| Immersion depth  | 24.5 mm                      |          |          |          |
| Overrun max.   | 5 mm                         |          |          |          |

## Características do artigo

| Attribute  | ZMA1030V                                    | ZMA1120V | ZMR1030V | ZMR1120V |
|--|---|----------|----------|----------|
| Number of N.C. door position                     | 0   |          |          |          |
| Number of N.O. door position                     | 0   | 1        | 0        | 1        |
| Number of interlocks guard locking               | 1   |          |          |          |
| Number of N.O. guard locking                     | 0   |          |          |          |
| Number of interlocks door position               | 2   | 1        | 2        | 1        |
| 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   |          |          |          |