



## 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

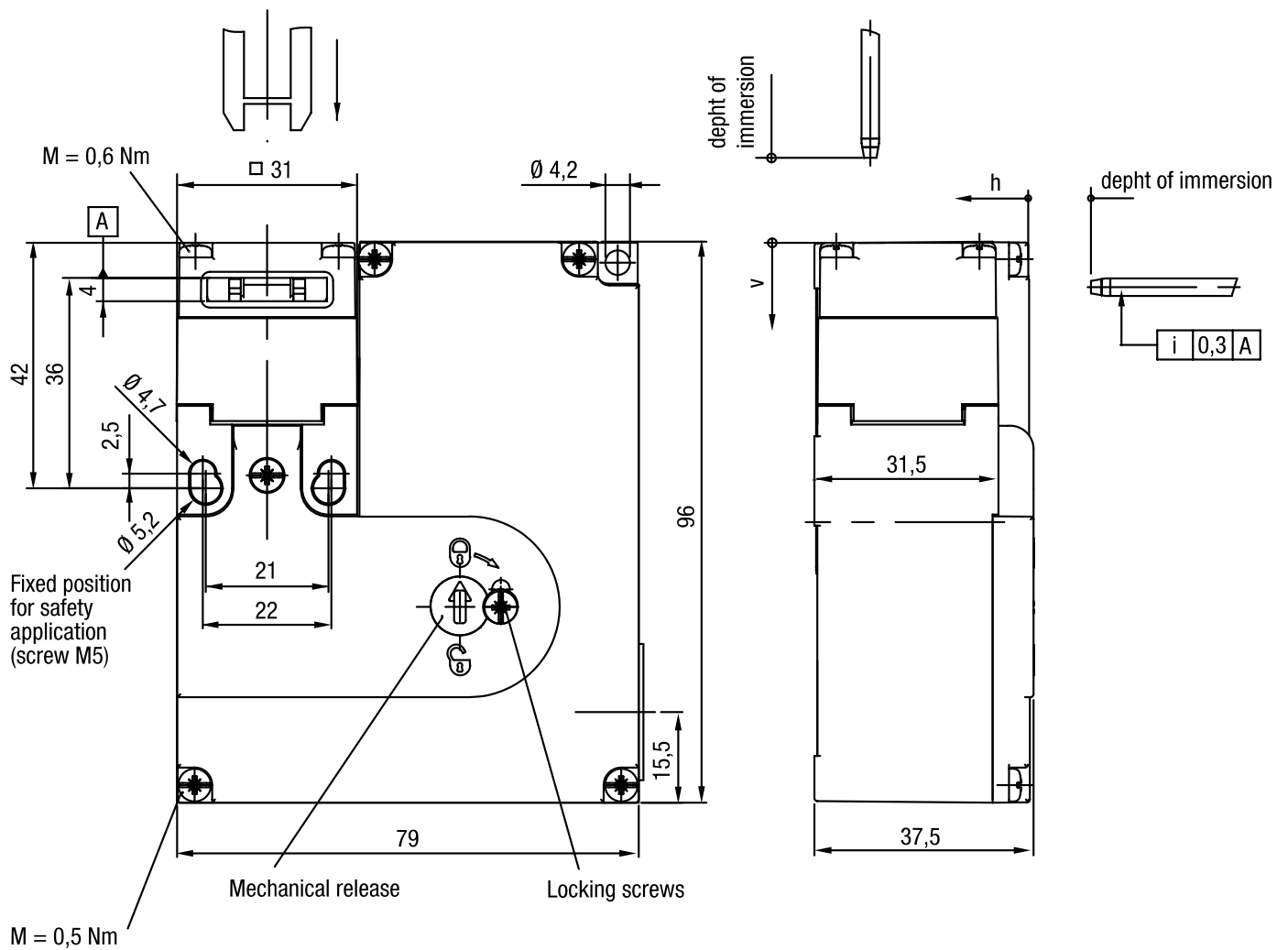
- 7 direções de acionamento
- Fácil montagem – 3 opções de entrada de cabos
- Diversas opções de travas mecânicas modelo ZB

### 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 features:

- Dimensions:**
  - Overall width: 20,5
  - Overall height: 16
  - Distance from top edge to center of mounting holes: 9
  - Distance between mounting holes: 4
  - Distance from right edge to center of mounting holes: 10,5
  - Distance from right edge to center of mounting holes: 15,5
- Features:**
  - Four mounting holes (two on the left, two on the right).
  - A central rectangular cutout.
  - A feature labeled "Protection against twisting for screw M4" with a dimension of 10,5.
  - A feature labeled "M 20 x 1,5" (likely a screw or bolt).
- Annotations:**
  - A feature labeled "B" (likely a hole or slot).
  - A feature labeled "0,3 B" (likely a hole or slot).

## Contact form

The diagram shows a three-phase power supply system. On the left, a vertical bar represents the power source with terminals labeled SK (22, 21, 12, 11) and ÜK (12, 11). Below this are terminals E1 and E2. A three-phase switch (ÜK) is connected to the SK terminals. The switch has three phases, each with a switch symbol (a circle with a diagonal line) and a contact symbol (a circle with a horizontal line). The switch is controlled by a single control line (ÜK) that branches into three lines, each passing through a switch symbol. The switch is connected to a three-phase load (a diamond shape with three internal lines) and a three-phase meter (a circle with three internal lines). The load is connected to the SK terminals. The meter is connected to the ÜK terminals. The switch is also connected to a three-phase meter (a circle with three internal lines) and a three-phase load (a diamond shape with three internal lines).

[illegible]

## 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			