elobau GmbH & Co. KG
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Safety interlock ZD

Safety interlock ZD has a slim design similar to that of the ZS series. The double actuator head enables the simultaneous interlocking of two guards with a constant locking force.

Product characteristics

- 7 possible approach directions on each side of the actuator head
- Supporting release enables the unlocking of the guard locking function in the event of a fault
- Three cable entries for flexible connection options
- Latching 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 ≥ 300mm)
ZBG5G straight with rubber bushing (R ≥ 300mm)
ZBA5G angled with rubber bushing (R ≥ 300mm)
ZBG5GE straight with rubber bushing (with insertion funnel, overrun 5 mm)
ZBA5GE angled with rubber bushing (with insertion funnel, overrun 5 mm)

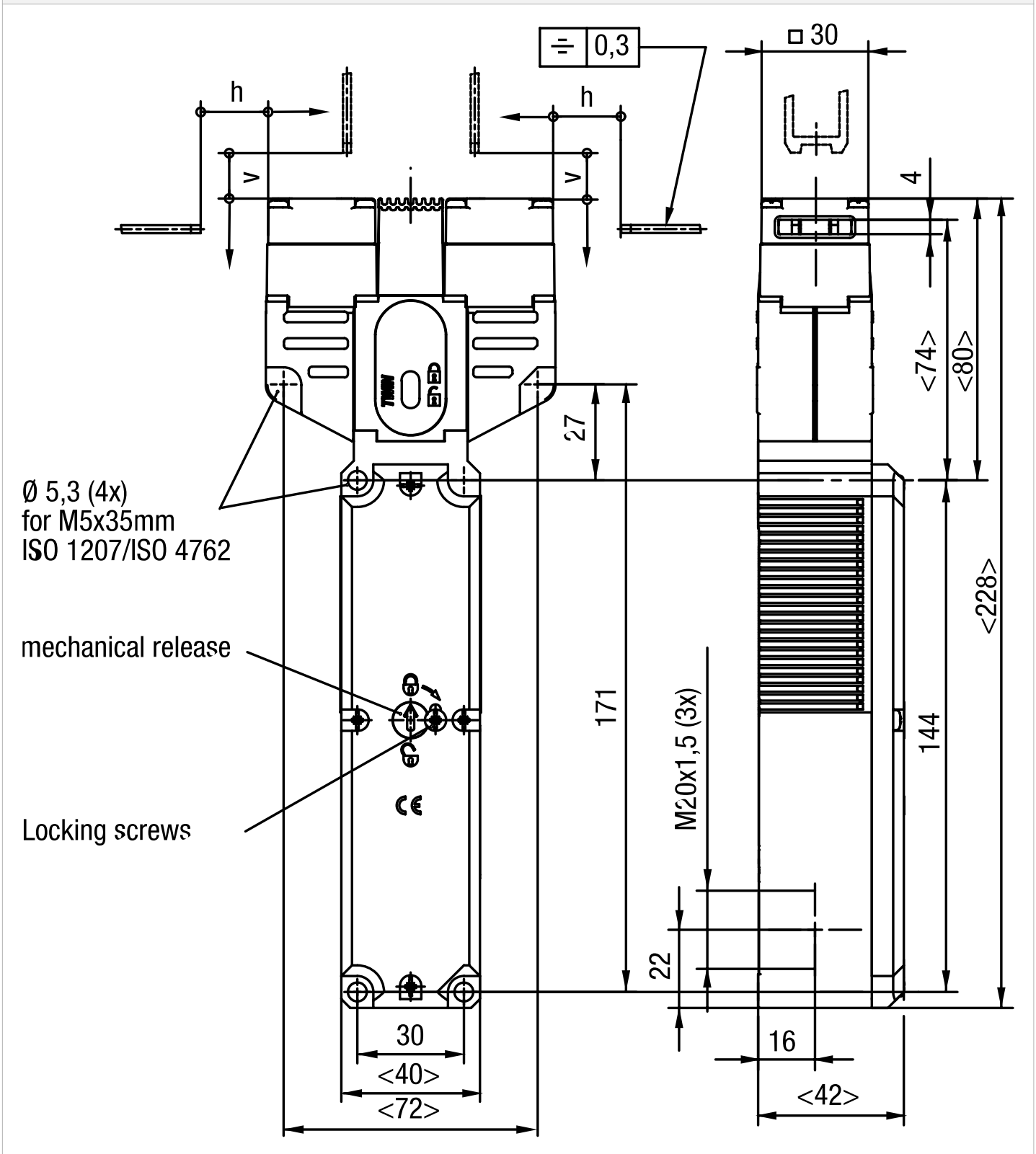
Hinged actuator for safety interlocks:
ZBU5M hinged actuator, approach direction top / bottom (R ≥ 200mm)
ZBL5M hinged actuator, approach direction left / right (R ≥ 100mm)
ZBU5ME hinged actuator, approach direction top / bottom (with insertion funnel, overrun 5 mm, R ≥ 200mm)
ZBL5ME hinged actuator, approach direction left / right (with insertion funnel, overrun 5 mm, R ≥ 100mm)

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Technical drawing

IMAGE 1/3



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IMAGE 2/3

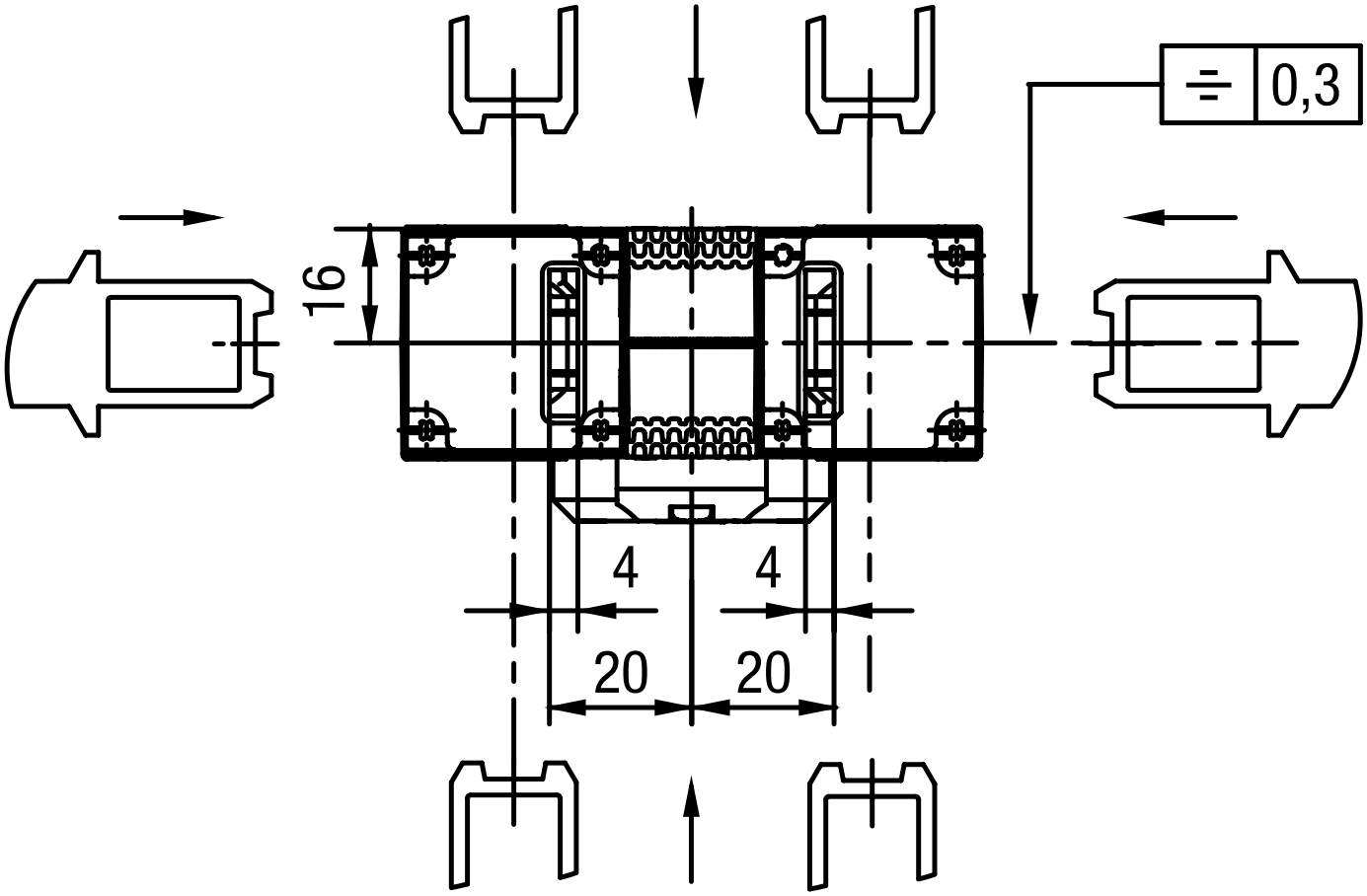
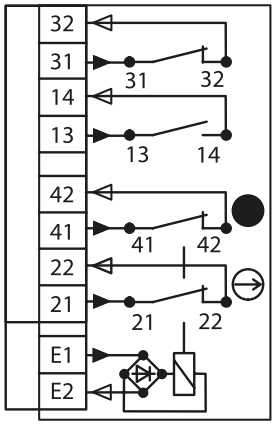


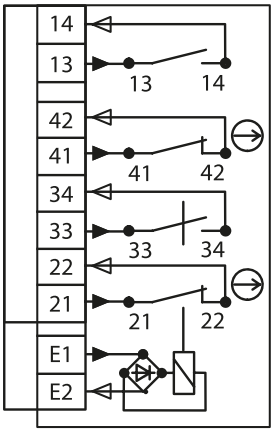
IMAGE 3/3

Contact form

ZDR 1121 R
ZDA 1121 R



ZDR 1220 R
ZDA 1220 R



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Product options

IMAGE 1/1

ORDERING KEY

ZD				Safety interlock – double actuator head
	R			Spring force locked / closed-circuit principle
	A			Magnetically locked / open-circuit principle
		1121		24 V AC/DC operating voltage for magnet / 1 N.O. / 2 force-guided N.C. / 1 non-force-guided N.C.
		1220		24 V AC/DC operating voltage for magnet / 2 N.O. / 2 force-guided N.C.
			R	Approach direction right (delivery status, changeable)

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Article characteristics

Attribute	ZDA1121R	ZDA1220R	ZDR1121R	ZDR1220R
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 81 x 228 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			

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Attribute	ZDA1121R	ZDA1220R	ZDR1121R	ZDR1220R
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			