



TZFSL24VDC

- Thermoplastic enclosure
- Holding force 1500 N

Data

Ordering data

Product type description	TZFSL24VDC
Article number (order number)	131017674
EAN (European Article Number)	8905236105982
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

Approvals - Standards

Certificates	cULus CCC
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General data

Standards	BG-GS-ET-19 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical

Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	480 g

General data - Features

Power to unlock	Yes
Manual release	Yes
Integral system diagnostics, status	Yes
Number of actuating directions	4
Number of auxiliary contacts	1
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B _{10D} Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I _e and ohmic load
Mission time	20 Year(s)

Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3
Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

Safety classification - Guard locking function

Performance Level, up to	e
Note (Performance Level)	Information for the safety classification of the guard locking function is documented in the "Operating instructions" or in the "Operation and mounting" instructions.

Mechanical data

Mechanical lifetime, minimum	1,000,000 Operations
Holding force F_{Zh} in accordance with EN ISO 14119	1,500 N
Latching force	20 N
Positive break travel	3.5 mm
Positive break force per NC contact, minimum	20 N
Positive break force, minimum	20 N
Actuating speed, maximum	0.3 m/s
Mounting	Screws
Type of the fixing screws	3x M6
Tightening torque of the fastening screws for the housing cover, minimum	0.8 Nm
Tightening torque of the fastening screws for the housing cover, maximum	0.8 Nm

Mechanical data - Connection technique

Cable entry	1 x M20 x 1,5
Termination	Screw terminals
Cable section, minimum	1 x 0.5 mm ²
Cable section, maximum	1 x 1.5 mm ²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	41 mm
Width of sensor	129 mm
Height of sensor	92.5 mm

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature	+0 ... +50 °C
Note (Relative humidity)	non-condensing non-icing

Ambient conditions - Insulation values

Rated insulation voltage U_i	250 VAC
Rated impulse withstand voltage U_{imp}	2.5 kV

Electrical data

Thermal test current	4 A
Rated control voltage	24 VDC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	8.5 W
Switching principle	Slow action
Maximale Schalthäufigkeit	1,200 /h
Material of the contacts, electrical	Silver

Electrical data - Magnet control

Magnet switch-on time	100 %
Test pulse duration, maximum	5 ms
Test pulse interval, minimum	50 ms

Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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Scope of delivery

Scope of delivery	The actuator TZ/CO is included in delivery.
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Note

Note (Manual release)	For manual release using triangular key M3 (included in delivery)
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Ordering code

Product type description:
TZ(1)(2)(3)(4)(5)24VCD-(6)

(1)

M	Power to lock
F	Power to unlock

(2)

	Contact variants (also refer to 4.3)
	Magnet: 1 NC contact; actuator: 1 NC contact / 1 NO contact
W	Magnet: 1 NC contact; actuator: 1 NC contact / 1 NO contact
C	Magnet: 1 NC contact/1 NO contact; actuator: 1 NC contact / 1 NO contact
CW	Magnet: 1 NC contact/1 NO contact; actuator: 1 NC contact / 1 NO contact
3OE/1S	Magnet: 1 NC contact; actuator: 2 NC contacts / 1 NO contact
W3OE	Magnet: 1 NC contact; actuator: 2 NC contacts / 1 NO contact
4OE	Magnet: 2 NC contacts; actuator: 2 NC contacts
W2MOE	Magnet: 2 NC contacts; actuator: 1 NC contact/1 NO contact

(3)

N	Emergency release N
.NE	Ancillary release .NE
.NEM	Ancillary release .NEM
S	Manual release using triangular key
SP	Manual release with triangular key and release bar
S.NF	Emergency exit and manual release

(4)

L	with LED display
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(5)

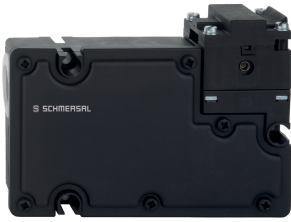
.CHI	Actuating head higher and rotated 180°
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(6)

3053	Customer-specific contact variant
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Pictures

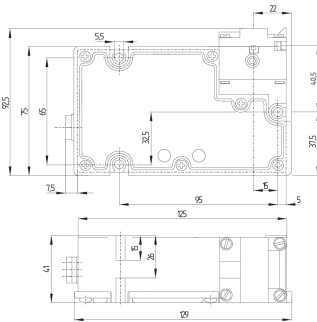
Product picture (catalogue individual photo)



ID: ktzf-f14

| 308.6 kB | .jpg | 352.778 x 254 mm - 1000 x 720 px - 72 dpi
| 37.1 kB | .png | 74.083 x 53.269 mm - 210 x 151 px - 72 dpi
| 35.2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi
| 3.5 MB | .png | 169.333 x 121.92 mm - 2000 x 1440 px - 300 dpi

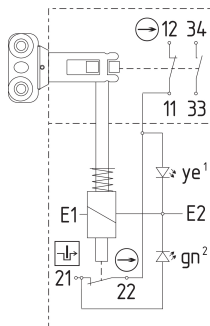
Dimensional drawing basic component



ID: ktzf-g01

| 160.4 kB | .jpg | 352.778 x 352.072 mm - 1000 x 998 px - 72 dpi
| 2.5 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

Diagram



ID: ktzf-k09

| 67.2 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi
| 188.8 kB | .jpg | 352.778 x 553.861 mm - 1000 x 1570 px - 72 dpi
| 7.9 kB | .png | 74.083 x 116.064 mm - 210 x 329 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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