

GSBF04R12-1508-M (ORDER NO. 088109)

Series GSBF... 12 mm, mechanical


- ▶ Plunger spacing 12 mm
- ▶ Upright housing
- ▶ Degree of protection IP67 according to IEC 60529



Description

Switching elements

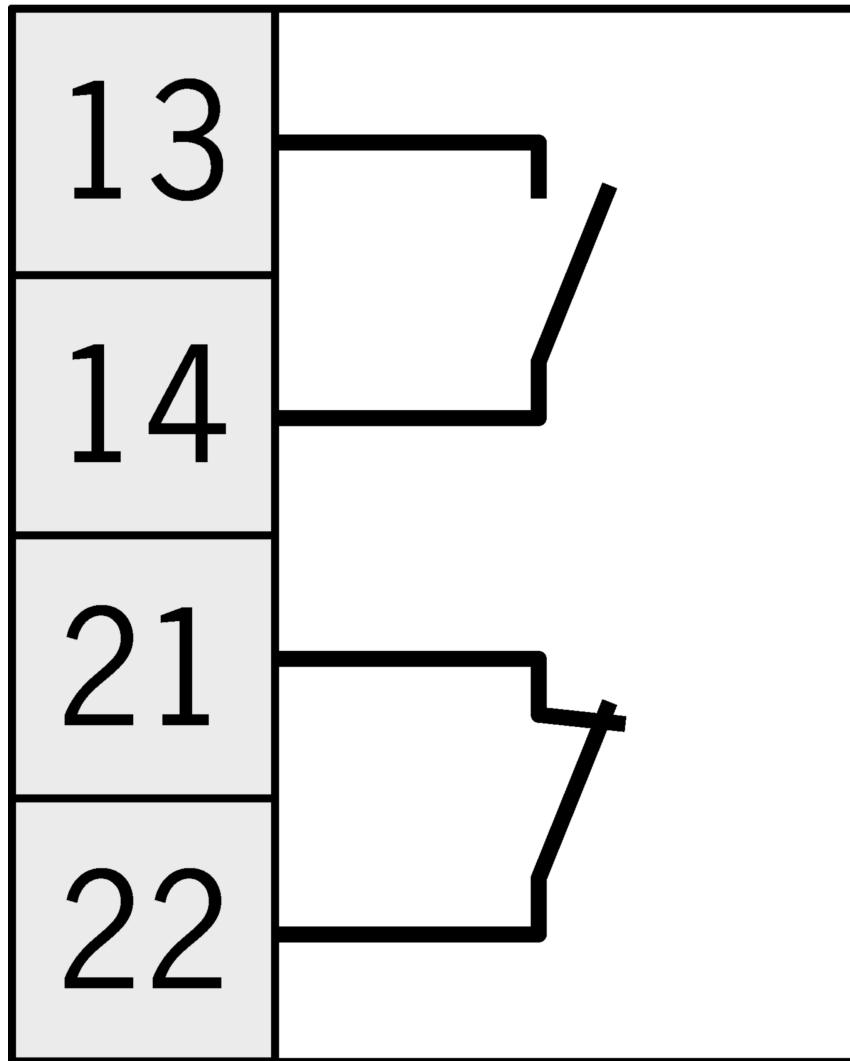
ES 502 E Snap-action switching contact 1 NC + 1 NO

ES 508 Slow-action switching contact 1 NC 

On the usage of safety switching elements, the dog distance $(4_{-0.5})$ must be maintained to achieve the positively driven travel. The dogs must be positively mounted according to EN ISO 14119, i.e. riveted, welded or secured in some other way against becoming loose.

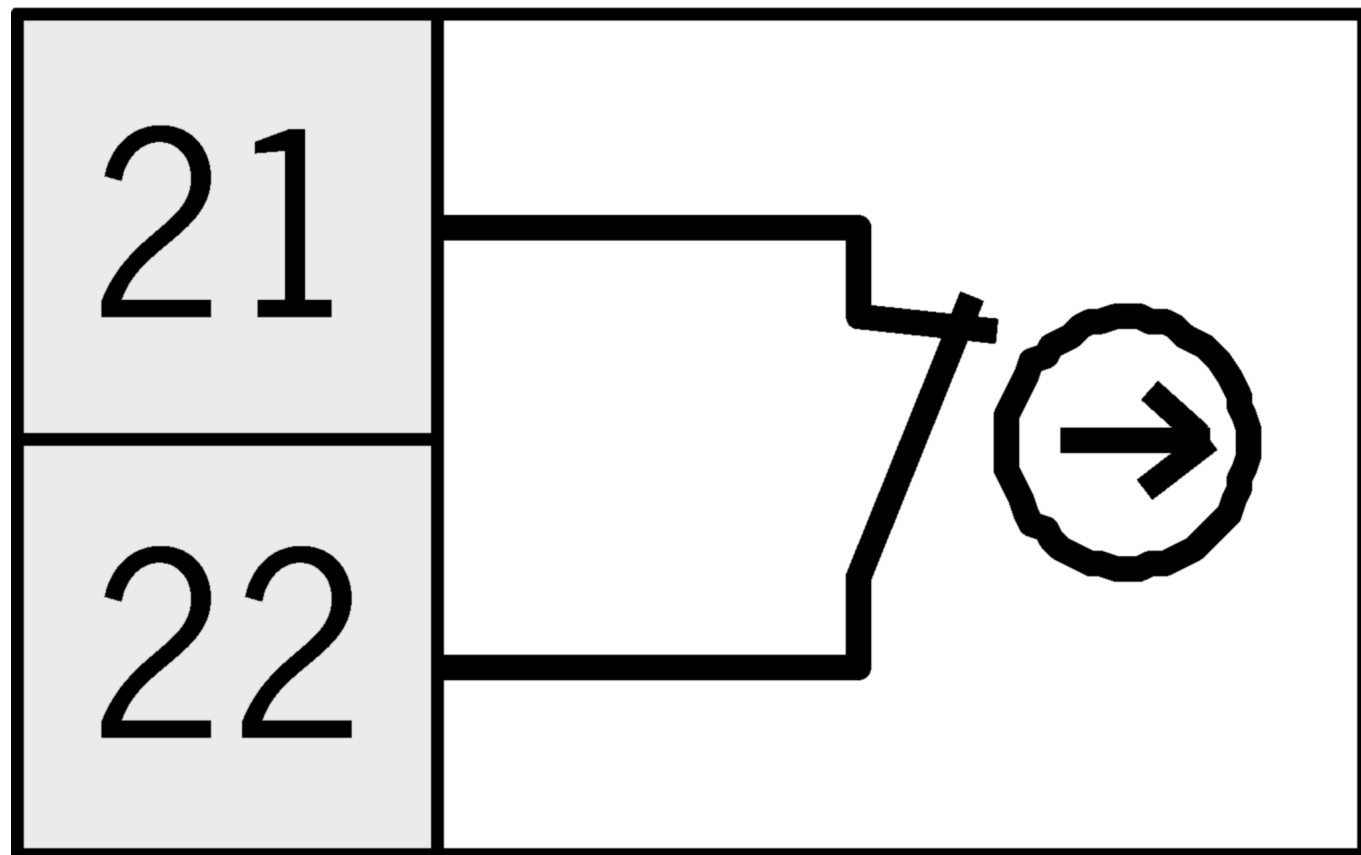
Dimension drawings

ES 502 E



Connection examples

ES 508



Technical data

Approvals



Electrical connection ratings

Connection cross-section	0.34 ... 1.5 mm ²
Rated impulse withstand voltage U _{imp}	2.5 kV
Rated insulation voltage U _i	250 V
Short circuit protection according to IEC 60269-1	8A gG
Switching current	
	min. at DC 24V min. 10 mA (applies to station 1 with switching element ES508)
	min. at DC 12V min. 10 mA (applies from station 2 with switching element ES502E)
thermal rated current I _{th}	8 A
Utilization category	
	DC-13 6A 24V
	AC-12 8A 250V
	AC-15 6A 230V

Mechanical values and environment

Actuating element	
	Slide bearing Roller plunger (Operating point accuracy ± 0.01. The reproducible operating point accuracy refers to the axial travel of the plunger after the switching element ES 502 E has been run-in with approx. 2,000 operating cycles.)
Actuating force	min. 20 N
Ambient temperature	-5 ... +80 °C
Approach speed	0.01 ... 80 m/min
Connection	
	4 x M25 x 1.5
Degree of protection	IP67
Design	upright
Installation orientation	any
Material	
	Contact Silver alloy, gold flashed
	Housing Die-cast aluminum, anodized
Mechanical life	30 x 10 ⁶
Number NC contacts	3
Number of NO contacts	3
Number of positively driven contacts	1
Number of switching elements	4
Plunger spacing	12 mm
Switching principle	
	Snap-action switching contact (Contact closing time 4 ms, contact bounce time 3 ms; applies from station 2 with switching element ES502E)
	Slow-action switching contact (applies to station 1 with switching element ES508)

Reliability values according to EN ISO 13849-1

B10d	20 x 10 ⁶
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Miscellaneous

Additional information

Mixed contact assembly

(On upright multiple limit switches, it is necessary to start with the safety station/s from the flange side. If several safety stations are to be installed, these must be installed directly one after the other.)

Contacts

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