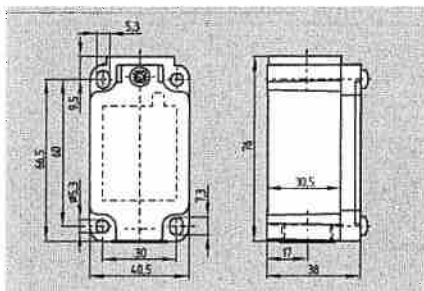


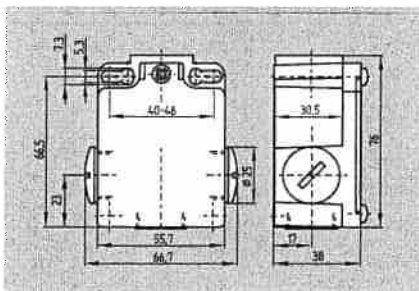
Position switches with safety function

Z/T 335



- Metal enclosure
- Snap action with constant contact pressure up to switching point
- Slow or snap action available with 2 positive break NC contacts to EN 60947-5-1
- Slow action available with overlapping or staggered contacts
- 1 cable entry M20 x 1.5
- Wide range of alternative actuators
- Actuator heads can be repositioned by 4 x 90°
- Angle of roller lever adjustable in 10° steps
- Good resistance to oil and petroleum spirit
- Metal roller available on request

Z/T 355



- Mountings and switching points to EN 50041
- 3 cable entries M20 x 1.5

Technical data

Standards:	IEC/EN 60947-5-1 BG-GS-ET-15
Design:	DIN EN 50041
Enclosure:	light-alloy diecast, paint finish
Protection class:	IP 67 to EN 60529
Contact material:	silver
Contact type:	change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges
Switching system:	⊕ IEC 60947-5-1 slow or snap action, NC contacts with positive break screw terminals
Termination:	max. 2.5 mm ² (incl. conductor ferrules)
Cable section:	Z/T 335: 1 x M20 x 1.5 Z/T 355: 3 x M20 x 1.5
Cable entry:	6 kV
U _{imp} :	-03z, -12z: 4kV
U _i :	500 V
I _{the} :	-03z, -12z: 250 V
Utilisation category:	10 A
I _e /U _e :	AC-15, DC-13 4 A / 230 VAC 1 A / 24 VDC
Max. fuse rating:	6 A gL/gG D-fuse
Ambient temperature:	-30 °C ... +80 °C
Mechanical life:	30 million operations
Switching frequency:	max. 5000/h
Bounce duration:	snap action: in accordance with actuating speed; slow action: < 2ms
Switchover time:	snap action: < 2 ms; slow action: in accordance with actuating speed

Approvals



Approvals



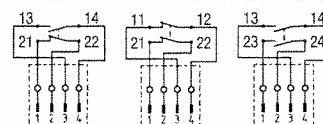
Ordering details

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

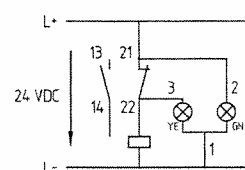
No.	Replace	Description
①	Z	Snap action ⊖
	T	Slow action ⊖
②	For the appropriate actuator: see as of page 1-58	
③	3	Slim design
	5	Large design
④	11	1 NO / 1 NC
	02	2 NC
	20	2 NO
	01/01	1 NC left / 1 NC right
	12	1 NO / 2 NC
	03	3 NC

No.	Replace	Description
⑤	h	Slow action with staggered contacts
	ü	with overlapping contacts
⑥	G24	With LED
⑦	M20	Cable entry M20
	NPT	Cable entry NPT 1/2"
	ST	Connector M12 (A-Coding) (B-Coding)
⑧	2310	Roller lever 7H
	2138	for safety duties

Note



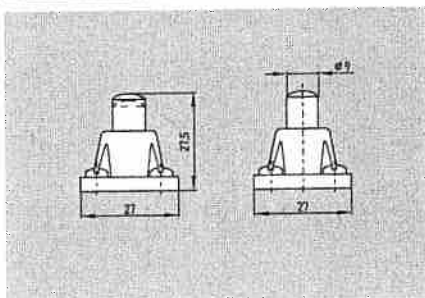
Connector



LED version
Ordering suffix G24, Protected against
incorrect polarity and voltage spikes.

Position switches with safety function

Plunger S

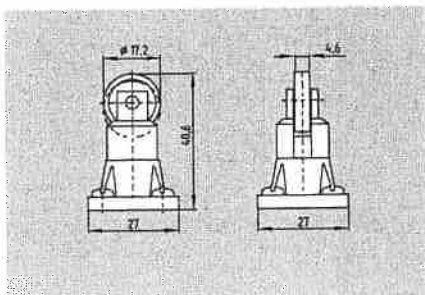


- Actuator type B to EN 50041
- Required actuating force:
12 N for snap action,
17 N for slow action
- Actuating speed with actuating
angle 0° to switch axis, max. 0.5 m/s

Contact variants

Contacts/ Switch travel	Snap action	Slow action	Slow action with overlapping contacts	Slow action with staggered contacts
1 NO 1 NC	ZS 3..-11z 	TS 3..-11z 	TS 3..-11zü 	
2 NC	ZS 3..-02z 	TS 3..-02z 		TS 3..-02zh
2 NO		TS 3..-20z 		TS 3..-20zh
1 NO 2 NC		TS 3..-12z 	TS 3..-12zü 	
3 NC		TS 3..-03z 		TS 3..-03zh

Roller plunger R



- Actuator type C to EN 50041
- Required actuating force:
12 N for snap action,
17 N for slow action
- Actuating speed with actuating
angle 30° to switch axis: max. 0.5 m/s

Contact variants

Contacts/ Switch travel	Snap action	Slow action	Slow action with overlapping contacts	Slow action with staggered contacts
1 NO 1 NC	ZR 3..-11z 	TR 3..-11z 	TR 3..-11zü 	
2 NC	ZR 3..-02z 	TR 3..-02z 		TR 3..-02zh
2 NO		TR 3..-20z 		TR 3..-20zh
1 NO 2 NC		TR 3..-12z 	TR 3..-12zü 	
3 NC		TR 3..-03z 		TR 3..-03zh