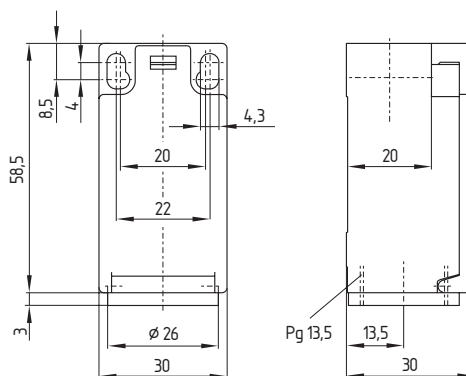


3. Position switches with safety function / Class 1

3.2 Z/T 236 range



Features

- Thermoplastic enclosure
- Double insulated \square
- Available with 2 positive break NC contacts
- Snap action with constant contact pressure up to switching point
- Slow action available with overlapping or staggered contacts
- Wiring compartment
- Wide range of alternative actuators
- Actuator heads can be repositioned in steps 4 x 90°
- Angle of roller lever adjustable in 10° steps
- Good resistance to oil and petroleum spirit

Info

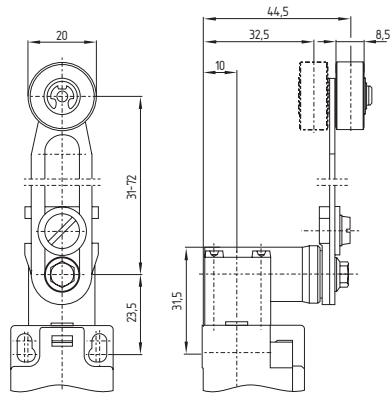
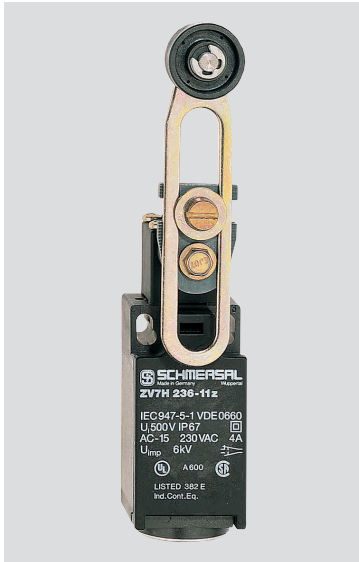
- Available with M 12 plug (A-coding), ordering suffix -ST
- Available with M 12 plug (B-coding), ordering suffix -2310
- Cable entry Pg 11, ordering suffix -1946
- Enclosure with transversely slotted mounting holes, ordering suffix -1297
- Cable entry 1/2" NPT, ordering suffix -NPT
- Cable entry M 20 x 1.5, ordering suffix -M20
- Gold-plated contacts (0.3 μ m), ordering suffix -1637
- Metal rollers on enquiry

Ordering details

Position switch with safety function / class 1 series Z/T 236 with offset roller lever K with slow action with two NC contacts and cable entry Pg 11: TK 236-02z-1946



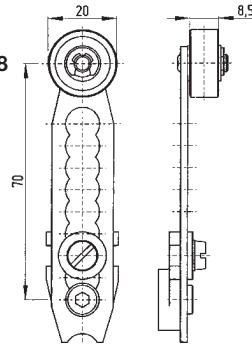
Adjustable-length roller lever 7H



Features

- Lever angle adjustable in 10° steps
- Applicable for positioning duties
- **For safety duties ☉, positive break, ordering suffix -2138**
- Actuating torque: Min. 15 Ncm
- Positive break torque: 18.5 Ncm
- Actuating speed with actuating angle 30° to lever axis
 Snap action:
 Min. 240 mm/min, max. 1 m/s
 Slow action:
 Min. 1440 mm/min, max. 1 m/s

Ordering suffix -2138



Note

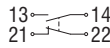
Positive break angle ☉ only valid with ordering suffix -2138

Info

- Actuator head gasket, ordering suffix -z

Contacts/
Switch travel

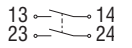
1 NO
1 NC



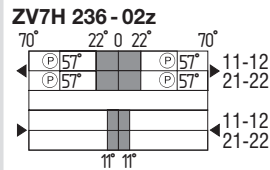
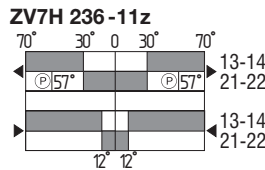
2 NC



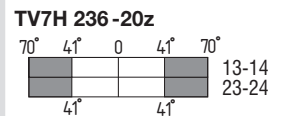
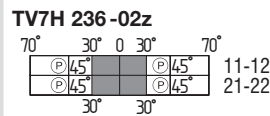
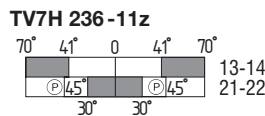
2 NO



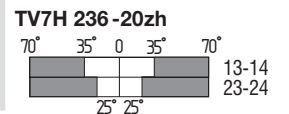
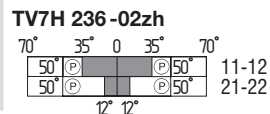
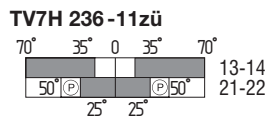
Snap action



Slow action



Slow action,
overlapping contacts



Slow action,
staggered contacts

3. Position switches with safety function / Class 1

3.9 Technical data

	Z/T 235	Z/T 236	ES/EM 95
Standards:	IEC/EN 60947-5-1; EN 1088; BG-GS-ET-15		
Design:	EN 50047		
Enclosure material:	Zinc diecasting, chromated, enamelled	Glass-fibre reinforced thermoplastic, self-extinguishing	
Protection class:	IP 67 to IEC/EN 60529/DIN VDE 0470-1		
Contact material:	Silver		
Contact type:	Change-over with double break Zb or 2 NC contacts, with galvanically separated contact bridges NC contacts with positive break		
Switching system:	⊖ IEC 60947-5-1; ⊕ BG-GS-ET-15; slow or snap action, NC contacts with positive break Snap action Z or slow action T Snap action EM or slow action ES		
Termination:	Screw terminals for max. 2.5 mm ² cables (including conductor ferrules)		
Rated impulse			
withstand voltage U _{imp} :	6 kV		
Rated insulation voltage U _i :	500 V		
Thermal test current I _{th} :	10 A		
Utilisation category:	AC-15; DC-13		
Rated operating			
current/voltage I _e /U _e :	4 A/230 VAC; 2.5 A/400 VAC; 1 A/500 VAC; 1 A/24 VDC		
Max. fuse rating:	10 A (slow blow); 16 A (quick blow), 6 A (slow blow) as positive break position switch		
Ambient temperature:	- 30 °C ... + 80 °C		ES 95: - 20 °C ... + 65 °C; EM 95: - 30 °C ... + 80 °C
Mechanical life:	20 million operations		10 million operations
Switching frequency:	Max. 5,000/h		Max. 3,600/h
Switching point accuracy:	-		
Actuating speed:**	Z 235: Min. 10 mm/min T 235: Min. 60 mm/min	Z 236: Min. 10 mm/min T 236: Min. 60 mm/min	ES 95: Min. 10 mm/min EM 95: Min. 60 mm/min
Contact break for			
complete stroke:	Z 235: 2 x 2 mm T 235: 2 x 3.5 mm	Z 236: 2 x 2 mm T 236: 2 x 3.5 mm	ES 95: > 2 x 1.25 mm EM 95: min. 2.3 mm, max. 2 x 4.5 mm
Bounce duration:	Z 235: < 3 ms T 235: *	Z 236: < 3 ms T 236: *	ES 95: < 3 ms EM 95: *
Switchover time:	Z 235: > 5.5 ms T 235: *	Z 236: > 5.5 ms T 236: *	ES 95: > 5.5 ms EM 95: *
Positive break force:	See switch description		-
Positive break stroke:	See switch description		-



* In accordance with actuating speed

** For the switch plunger