

Position switch NZ.PS with adjustable lever arm

- ▶ Steel roller Ø 18
- ▶ LED optional
- ▶ Plug connector optional



Approach direction



Horizontal
Switch head and lever arm can be adjusted in 90° steps.

Switching direction

Right, left or both sides (see page 9).

Lever arm adjustment

Lever arm length can be adjusted from 28 mm to 78 mm in steps of 12.5 mm.

LED function display (optional)

A function display is available for the following voltage ranges:

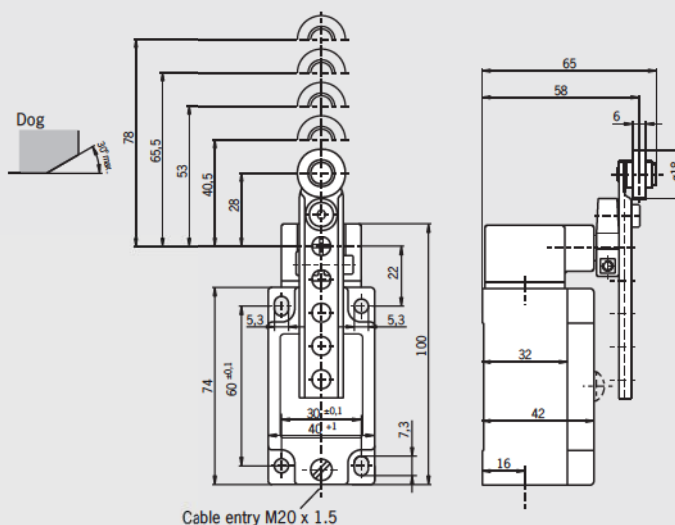
- ▶ AC/DC 12-60 V red or yellow
- ▶ AC 230 V ±15% red

Switching elements (see also page 13/14)

- ▶ **511** Snap-action switching element
1 NC ⊖ + 1 NO
- ▶ **528H** Slow-action switching element
1 NC ⊖ + 1 NO
- ▶ **538H** Slow-action switching element
2 NC ⊖
- ▶ **2121H** Slow-action switching element
4 NC ⊖
- ▶ **2131H** Slow-action switching element
3 NC ⊖ + 1 NO
- ▶ **3131H** Slow-action switching element
2 NC ⊖ + 2 NO

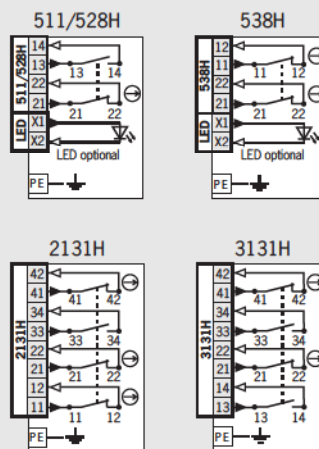
Cable entry M20 x 1.5

Dimension drawings



For cable glands see page 124

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Function display		
				Without LED	12-60 V red LED	230 V red LED
NZ	PS Adjustable lever arm	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC ⊖ + 1 NO	088 613 ¹⁾ NZ1PS-511-M	On request	On request
			528H 1 NC ⊖ + 1 NO	090 874 NZ1PS-528-M	090 430 NZ1PS-528L060-M	093 521 NZ1PS-528L220-M
			538H 2 NC ⊖	090 875 NZ1PS-538-M	On request	On request
			2131H 3 NC ⊖ + 1 NO	090 876 NZ1PS-2131-M	-	-
			3131H 2 NC ⊖ + 2 NO	090 877 NZ1PS-3131-M	-	-

¹⁾ No BG approval for switching element 511

Position switch NZ...

The technical data on switches and switching elements apply to all connections. Further technical data are given for the connection selected.



Switch							
Parameter	Value						Unit
Housing material	Anodized die-cast alloy						
Mechanical life	30 x 10 ⁶ operating cycles						
Ambient temperature	- 25 ... + 80						°C
Weight	Approx. 0.3						kg
Approach speed, min.	0.1						m/min
Approach speed max. ¹⁾ depending on actuator	HB	HS	PB	PS	RG, RL, RS	RK	WO
	300	60	120	30	20	80	10
							m/min
Actuating force, min.	15						N

Switching element	 		Value			Unit
Parameter						
Switching principle	Snap-action switching element		Slow-action switching element			
Switching elements with 2 switching elements	511 1 NC + 1 NO		528H 1 NC + 1 NO	538H 2 NC		
Switching elements with 4 switching elements	-		2121H 4 NC	2131H 3 NC + 1 NO	3131H 2 NC + 2 NO	
Min. switching current at 24 V DC	10		1			mA
Switching current max.	6		4			A
Contact closing time	< 4		-			ms
Contact bounce time	< 3		-			ms
Rated impulse withstand voltage U _{imp}			2.5			kV
Contact material			Silver alloy, gold flashed			

Connection, cable entry M20 x 1.5			Value			Unit
Parameter						
Connection			Screw terminal			
Version			M20 x 1.5			
Conductor cross-section max.			Per wire 1.5 mm ²			
Degree of protection according to IEC 60529			IP 67			
Rated insulation voltage U _i			250			V AC/DC
Switching element	Snap-action switching element		Slow-action switching element			
	511		528H, 538H, 2121H, 2131H, 3131H			
Conventional thermal current I _{th}	6		4			A
Short circuit protection according to IEC 60269-1 (control circuit fuse)	6		4			A gG
Utilization category to IEC 60947-5-1	AC-12	I _e 10 A U _e 230 V	-			
	AC-15	I _e 6 A U _e 230 V	I _e 4 A U _e 230 V			
	DC-13	I _e 6 A U _e 24 V	I _e 4 A U _e 24 V			

Connection, plug connector SVM 5 (M12)			Value			Unit
Parameter						
Connection			Plug connector			
Version			M12 (4-pin + PE), male socket adjustable (max. 270°) for elbow connector			
Degree of protection according to IEC 60529			IP 67 ²⁾			
Rated insulation voltage U _i			30			V AC/DC
Switching element			Snap-action switching element 511 , Slow-action switching element 528H, 538H			
Conventional thermal current I _{th}			4			A
Short circuit protection according to IEC 60269-1 (control circuit fuse)			4			A gG
Utilization category to IEC 60947-5-1	AC-15	I _e 4 A U _e 30 V				
	DC-13	I _e 4 A U _e 24 V				

¹⁾ The approach speed given applies in conjunction with EUCHNER trip dogs at an approach angle of 30°. At a smaller approach angle this approach speed can be exceeded.

²⁾ Screwed tight with the related plug connector (see page 124)

