

Position switch NZ.RK with roller plunger



- ▶ Steel roller $\varnothing$ 8 mm
- ▶ LED optional
- ▶ Plug connector optional
- ▶ Bearing optional



Approach direction

Horizontal
Can be adjusted in 90° steps.

LED function display (optional)

A function display is available for the following voltage ranges:

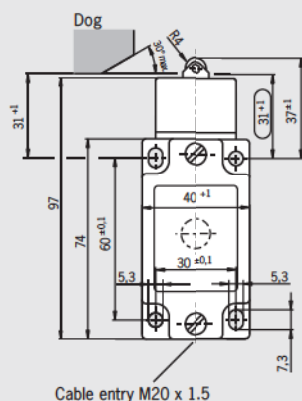
- ▶ AC/DC 12-60 V red or yellow
- ▶ AC 110 V $\pm 15\%$ red
- ▶ AC 230 V $\pm 15\%$ red

Switching elements (see also page 13/14)

- ▶ **511** Snap-action switching element
1 NC $\ominus$ + 1 NO
- ▶ **528H** Slow-action switching element
1 NC $\ominus$ + 1 NO
- ▶ **538H** Slow-action switching element
2 NC $\ominus$
- ▶ **2131H** Slow-action switching element
3 NC $\ominus$ + 1 NO
- ▶ **3131H** Slow-action switching element
2 NC $\ominus$ + 2 NO

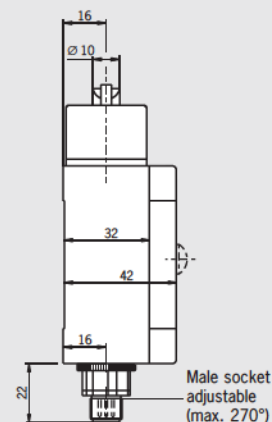
Cable entry M20 x 1.5

Dimension drawings



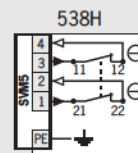
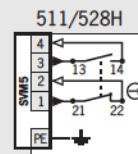
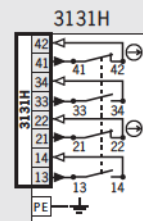
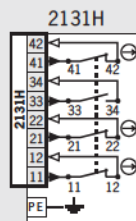
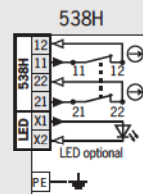
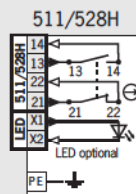
For cable glands
see page 124

Plug connector SVM5 M12 plug, 5-pin



For mating connectors
see page 124

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Version	Function display			
					Without LED	12-60 V red LED	110 V red LED	12-60 V yellow LED
NZ	RK Roller plunger	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC $\ominus$ + 1 NO		088 608 ¹⁾ NZ1RK-511-M	090 354 ¹⁾ NZ1RK-511L060-M	090 355 ¹⁾ NZ1RK-511L220-M	On request
			528H 1 NC $\ominus$ + 1 NO		090 905 NZ1RK-528-M	090 358 NZ1RK-528L060-M	On request	On request
			528H 1 NC $\ominus$ + 1 NO	C1912 With bearing	090 572 NZ1RK-528-MC1912	On request	On request	086 408 NZ1RK-528L060GE-MC1912
			538H 2 NC $\ominus$		090 906 NZ1RK-538-M	On request	On request	On request
			2131H 3 NC $\ominus$ + 1 NO		090 907 NZ1RK-2131-M	-	-	-
			3131H 2 NC $\ominus$ + 2 NO		090 908 NZ1RK-3131-M	-	-	-
		2 Plug connector SVM5 (M12 plug)	511 1 NC $\ominus$ + 1 NO		089 007 NZ2RK-511SVM5	On request	-	On request
			528H 1 NC $\ominus$ + 1 NO		090 930 NZ2RK-528SVM5	On request	-	On request
			538H 2 NC $\ominus$		089 018 NZ2RK-538SVM5	On request	-	On request

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
Actuating force, min.	15						N

Switching element	 		Value	Unit
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
Min. switching current at 24 V DC	10		1	
Switching current max.	6		4	mA
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
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
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)

