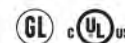


Actuating element	
WO	Domed plunger
RK	Roller plunger with steel roller Ø 8 mm
RS	Roller plunger with steel roller Ø 12 mm
RG	Roller plunger with plastic roller Ø 12 mm
RL	Extended roller plunger with steel roller Ø 18 mm
HS	Lever arm with steel roller Ø 18 mm; 19 mm for ball bearing (C1833)
HB	Lever arm with plastic roller Ø 18 mm; 30 mm (version C569); Roller on inside of lever (C1779)
PS	Adjustable lever arm with steel roller Ø 18 mm
PB	Adjustable lever arm with plastic roller Ø 18 mm
Connection	
M	Thread M20x1.5 for cable glands
SVM5	M12 plug connector 5-pin, male socket adjustable (max. 270°) for elbow connector
SR6	Plug connector 6-pin + PE
MR8	Plug connector 7-pin + PE
MR9	Plug connector 8-pin + PE
MR10	Plug connector 9-pin + PE
SR11	Plug connector 11-pin + PE
Switching element	
Two contacts	1 NC ⊖ + 1 NO or 2 NC ⊖
Four contacts	2 NC ⊖ + 2 NO, 3 NC ⊖ + 1 NO or 4 NC ⊖

Actuating element									Connection							Switching element		With version	Page
WO	RK	RS	RG	RL	HS	HB	PS	PB	M	SVM5	SR6	MR8	MR9	MR10	SR11	Two contacts	Four contacts		
●									●	●						●	●		24
●											●					●		C1630/C1631	25
●															●		●		25
	●								●	●						●	●	C1912	26
	●										●				●	●	●		27
		●							●							●		C1588	43
		●							●	●						●	●	ATEX	28
		●									●					●		C1630/C1631	29
		●											●		●		●		29
			●						●	●						●	●		30
			●								●					●		C1631	31
			●												●		●		31
				●					●	●						●	●		32
				●							●					●			33
				●											●		●	C1831	33
					●				●	●						●	●	ATEX	34
					●						●					●		C1630	35
					●										●		●		35
					●							●	●	●			●		36
					●				●								●	C1779	45
					●				●							●		C1833	46
						●			●							●		C569	44
						●			●	●						●	●		37
						●					●					●		C1630/C1631	38
						●									●		●		38
						●							●	●			●		39
							●		●							●	●		40
							●				●					●			41
							●								●		●		41
								●	●							●	●		42

Position switch NZ.WO with domed plunger



- **Version B according to EN 50041**
(hardened)
- **LED optional**
- **Plug connector optional**



Approach direction



Horizontal and vertical

LED function display (optional)

LED function display (optional)
A function display is available for the following voltage ranges:

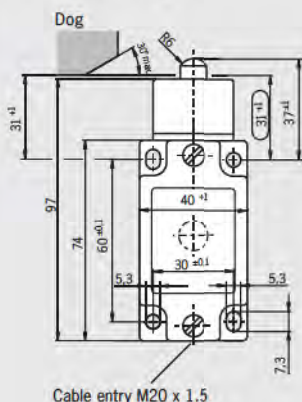
- | | | | |
|-------|---------|------|---------------|
| AC/DC | 12-60 V | | red or yellow |
| AC | 110 V | ±15% | red |
| AC | 230 V | ±15% | red |

Switching elements (see also page 13/14)

- 511 Slow-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 $\ominus$
- 2121H Slow-action switching element
4 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

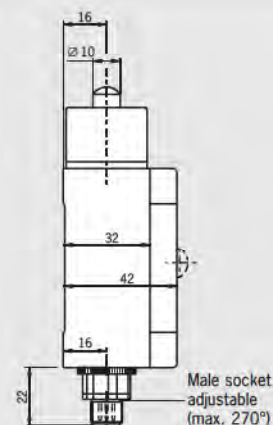
Dimension drawings



For cable glands
see page 124

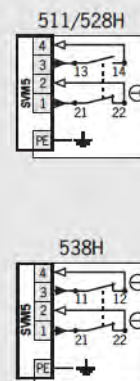
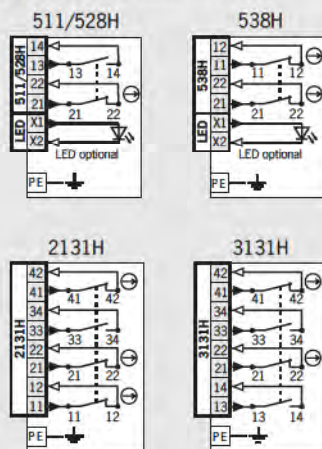
Plug connector SVM5

M12 plug, 5-pin



For mating connectors
see page 124

Wiring diagrams



Ordering table

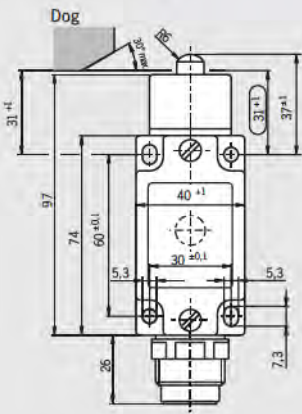
Series	Connection	Actuator	Switching element	Function display				
				Without LED	12-60 V red LED	110 V red LED	230 V red LED	12-60 V yellow LED
NZ	1 Cable entry M20 x 1.5	WO Domed plunger	511 ¹⁾ 1 NC ⊖ + 1 NO	088 611 ¹⁾ NZ1WO-511-M	089 057 ¹⁾ NZ1WO-511L060-M	089 059 ¹⁾ NZ1WO-511L110-M	089 060 ¹⁾ NZ1WO-511L220-M	089 058 ¹⁾ NZ1WO-511L060GE-M
			528H 1 NC ⊖ + 1 NO	089 624 NZ1WO-528-M	089 078 NZ1WO-528L060-M	On request	On request	On request
			538H 2 NC ⊖	090 878 NZ1WO-538-M	089 076 NZ1WO-538L060-M	On request	On request	On request
			2131H 3 NC ⊖ + 1 NO	089 629 NZ1WO-2131-M	-	-	-	-
			3131H 2 NC ⊖ + 2 NO	089 626 NZ1WO-3131-M	-	-	-	-
	2 Plug connector SVM5 (M12 plug)	WO Domed plunger	511 1 NC ⊖ + 1 NO	089 014 NZ2WO-511SVM5	On request	-	-	On request
			528H 1 NC ⊖ + 1 NO	090 923 NZ2WO-528SVM5	On request	-	-	On request
			538H 2 NC ⊖	090 924 NZ2WO-538SVM5	On request	-	-	On request

1) No BG approval for switching element 511



Plug connector SR6
6-pin + PE

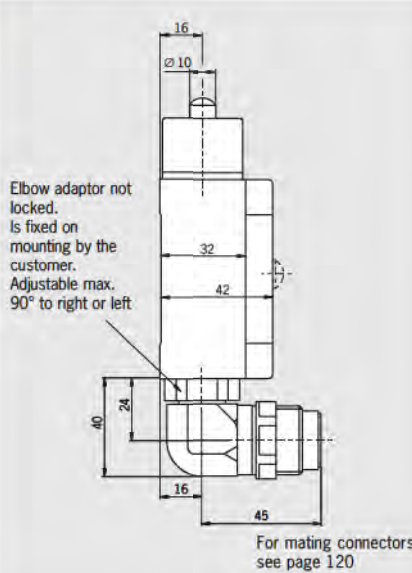
Dimension drawings



For mating connectors
see page 120



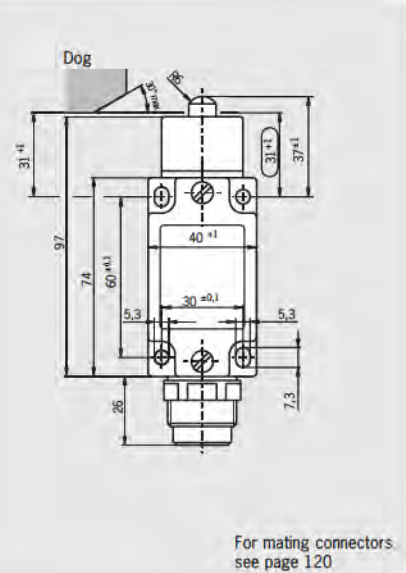
Plug connector SR6 angled
6-pin + PE



For mating connectors
see page 120

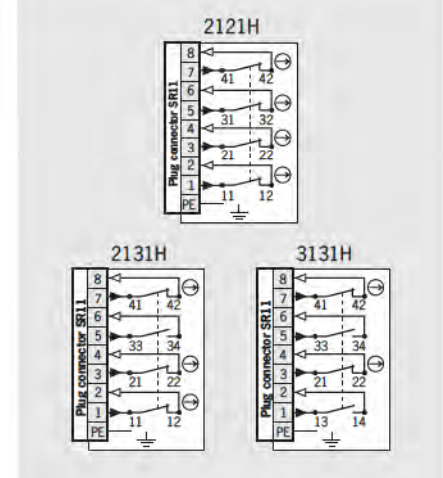
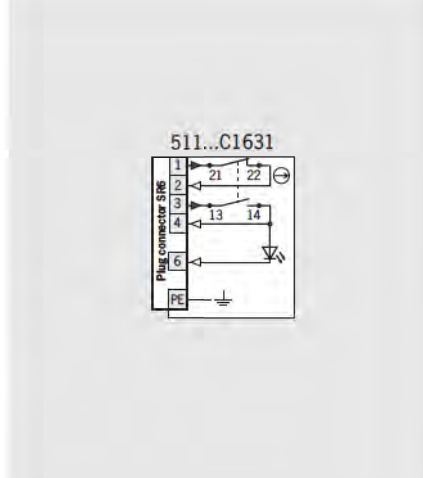
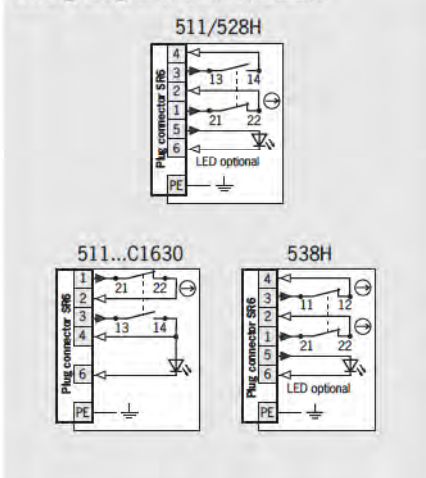


Plug connector SR11
11-pin + PE



For mating connectors
see page 120

Wiring diagrams

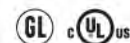


Ordering table

Series	Actuator	Connection	Switching element	Version	Function display		
					Without LED	12-60 V red LED	12-60 V yellow LED
NZ	WO Dorned plunger	2 Plug connector SR6	511 ¹⁾ 1 NC ⊖ + 1 NO	C1630 Alternative wiring	090 909 ¹⁾ NZ2WO-511	091 280 ¹⁾ NZ2WO-511L060	On request
			511 ¹⁾ 1 NC ⊖ + 1 NO		On request	On request	059 481 ¹⁾ NZ2WO-511L060C1630
			528H 1 NC ⊖ + 1 NO		090 910 NZ2WO-528	091 279 NZ2WO-528L060	On request
			538H 2 NC ⊖		090 911 NZ2WO-538	087 558 NZ2WO-538L060	On request
		2 Plug connector SR6 angled	511 ¹⁾ 1 NC ⊖ + 1 NO	C1631 Alternative wiring	On request	On request	059 482 ¹⁾ NZ2WO-511L060C1631
		2 Plug connector SR11	2121H 4 NC ⊖		090 976 NZ2WO-2121	-	-
		2 Plug connector SR11	2131H 3 NC ⊖ + 1 NO		090 912 NZ2WO-2131	-	-
			3131H 2 NC ⊖ + 2 NO		090 913 NZ2WO-3131	-	-

¹⁾ No BG approval for switching element 511

Position switch NZ.RK with roller plunger



- ▶ Steel roller Ø 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:

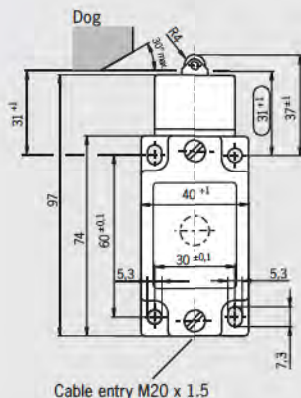
- AC/DC 12-60 V red or yellow
- AC 110 V ±15% red
- AC 230 V ±15% red

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 ⊖
- 2131H** Slow-action switching element
3 NC ⊖ + 1 NO
- 3131H** Slow-action switching element
2 NC ⊖ + 2 NO

Cable entry M20 x 1.5

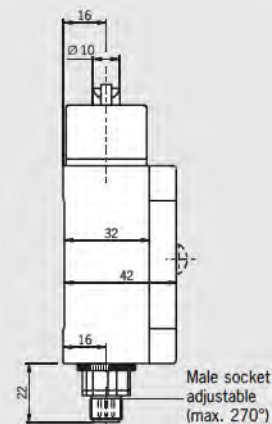
Dimension drawings



For cable glands
see page 124

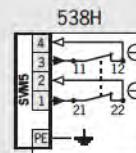
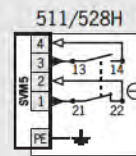
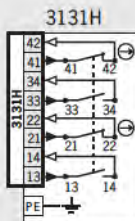
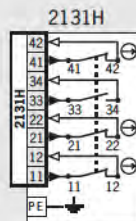
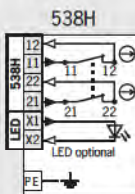
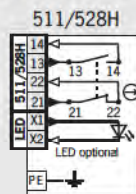
Plug connector SVM5

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 ⊖ + 1 NO	C1912 With bearing	088 608 ¹⁾ NZ1RK-511-M	090 354 ¹⁾ NZ1RK-511L060-M	090 355 ¹⁾ NZ1RK-511L220-M	On request
			528H 1 NC ⊖ + 1 NO		090 905 NZ1RK-528-M	090 358 NZ1RK-528L060-M	On request	On request
			528H 1 NC ⊖ + 1 NO		090 572 NZ1RK-528-MC1912	On request	On request	086 408 NZ1RK-528L060GE-MC1912
			538H 2 NC ⊖		090 906 NZ1RK-538-M	On request	On request	On request
			2131H 3 NC ⊖ + 1 NO		090 907 NZ1RK-2131-M	-	-	-
			3131H 2 NC ⊖ + 2 NO		090 908 NZ1RK-3131-M	-	-	-
		2 Plug connector SVM5 (M12 plug)	511 1 NC ⊖ + 1 NO		089 007 NZ2RK-511SVM5	On request	-	On request
			528H 1 NC ⊖ + 1 NO		090 930 NZ2RK-528SVM5	On request	-	On request
			538H 2 NC ⊖		089 018 NZ2RK-538SVM5	On request	-	On request

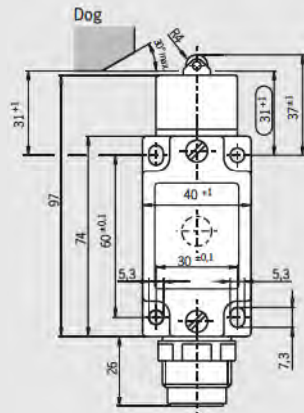
¹⁾ No BG approval for switching element 511



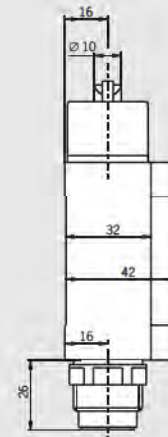
Plug connector SR6 6-pin + PE

Plug connector SR11 11-pin + PE

Dimension drawings

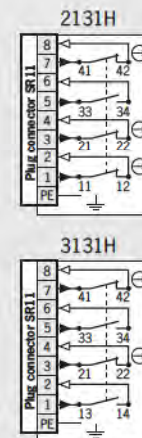
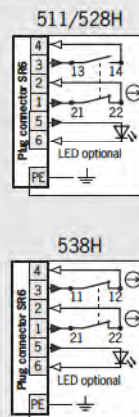


For mating connectors
see page 120



For mating connectors
see page 120

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Function display		
				Without LED	12-60 V red LED	110 V red LED
NZ	RK Roller plunger	2 Plug connector SR6	511 ¹⁾ 1 NC ⊖ + 1 NO	090 016 ¹⁾ NZ2RK-511	On request	088 180 ¹⁾ NZ2RK-511L110
			528H 1 NC ⊖ + 1 NO	090 919 NZ2RK-528	091 292 NZ2RK-528L060	On request
			538H 2 NC ⊖	090 920 NZ2RK-538	On request	On request
		2 Plug connector SR11	2131H 3 NC ⊖ + 1 NO	090 921 NZ2RK-2131	-	-
			3131H 2 NC ⊖ + 2 NO	090 922 NZ2RK-3131	-	-

1) No BG approval for switching element 511

Position switch NZ.RS with roller plunger



- **Version C** according to EN 50041 (steel roller $\varnothing$ 12 mm)
- **LED optional**
- **Plug connector optional**
- **ATEX approval optional**



Approach direction

Horizontal
Can be adjusted in 90° steps.

LED function display (optional)

A function display is available for the following voltage ranges:

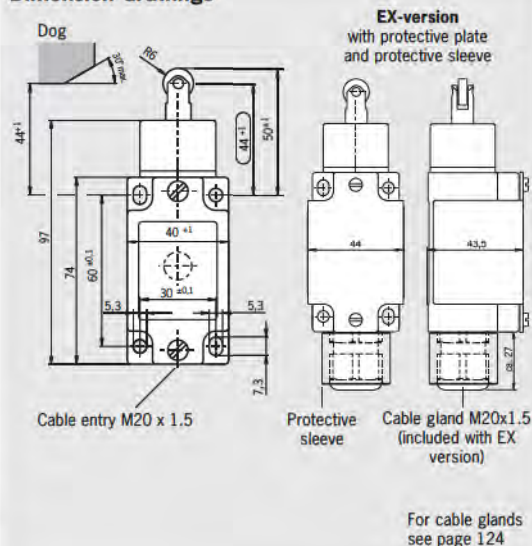
- AC/DC 12-60 V red or yellow
- AC 110 V $\pm 15\%$ red
- AC 230 V $\pm 15\%$ red

Switching elements (see also page 13/14)

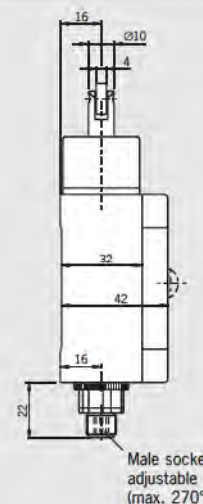
- **511** Snap-action switching element
1 NC $\ominus$ + 1 NO
- **528H** Slow-action switching element
1 NC $\ominus$ + 1 NO
- **538H** Slow-action switching element
2 NC $\ominus$
- **2121H** Slow-action switching element
4 NC $\ominus$
- **2131H** Slow-action switching element
3 NC $\ominus$ + 1 NO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

Cable entry M20 x 1.5

Dimension drawings

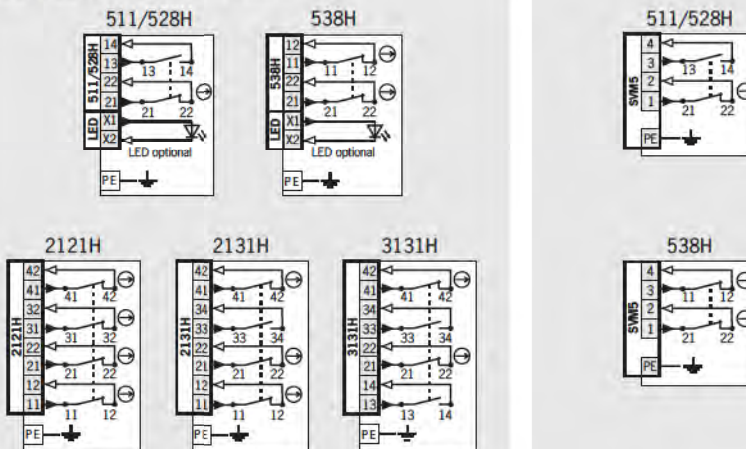


Plug connector SVM5 M12 plug, 5-pin



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	RS Roller plunger	1 Cable entry M20 x 1.5	511 ¹⁾		079 960 ¹⁾	089 053 ¹⁾	089 055 ¹⁾	086 528 ¹⁾
			1 NC $\ominus$ + 1 NO		NZ1RS-511-M	NZ1RS-511L060-M	NZ1RS-511L220-M	NZ1RS-511L060GE-M
			528H		089 627	086 413	091 291	On request
			1 NC $\ominus$ + 1 NO		NZ1RS-528-M	NZ1RS-528L060-M	NZ1RS-528L220-M	
			538H		090 936	090 555	On request	090 424
			2 NC $\ominus$		NZ1RS-538-M	NZ1RS-538L060-M		NZ1RS-538L060GE-M
			2121H		087 595	-	-	-
			4 NC $\ominus$		NZ1RS-2121-M			
			2131H		089 633	-	-	-
			3 NC $\ominus$ + 1 NO		NZ1RS-2131-M			
			3131H		089 631	-	-	-
			2 NC $\ominus$ + 2 NO		NZ1RS-3131-M			
			3131H	ATEX incl. cable gland	094 169 ²⁾	-	-	-
			2 NC $\ominus$ + 2 NO		NZ1RS-3131-M-EX			
		2 Plug connector SVM5 (M12 plug)	511		090 027	On request	-	098 651
			1 NC $\ominus$ + 1 NO		NZ2RS-511SVM5			NZ2RS-511SVM5L060GE
			528H		090 963	On request	-	On request
			1 NC $\ominus$ + 1 NO		NZ2RS-528SVM5			
			538H		090 964	On request	-	On request
			2 NC $\ominus$		NZ2RS-538SVM5			

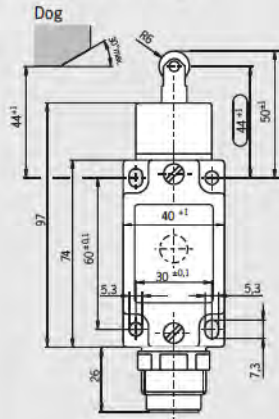
1) No BG approval for switching element 511

2) II 3 G EEx nC T5 (reduced resistance to impact acc. to EN 61241-1; max. 4 J) / Ex II 3 D Ex tD A22 T90°C (reduced resistance to impact acc. to EN 61241-1; max. 4 J)



Plug connector SR6
6-pin + PE

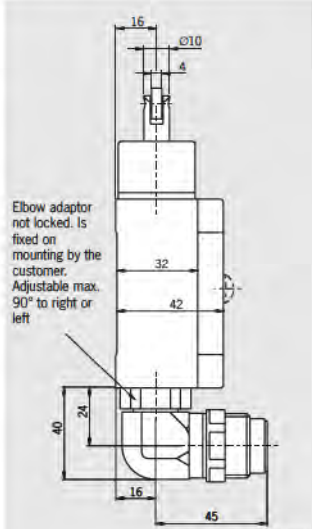
Dimension drawings



For mating connectors
see page 120



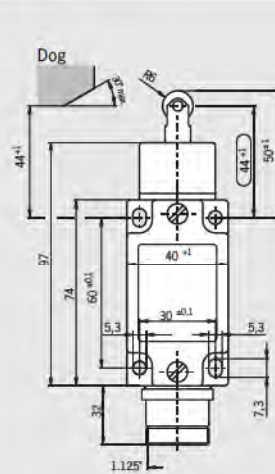
Plug connector SR6 angled
6-pin + PE



For mating connectors
see page 120



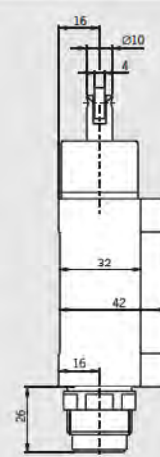
Plug connector MR9
8-pin + PE



For mating connectors
see page 123

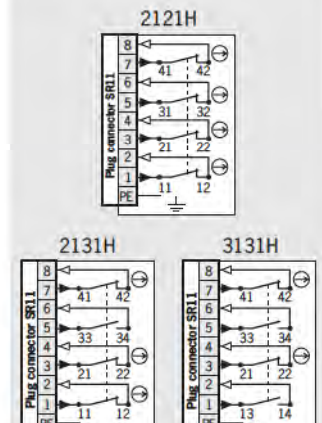
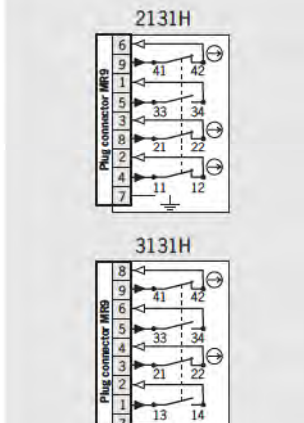
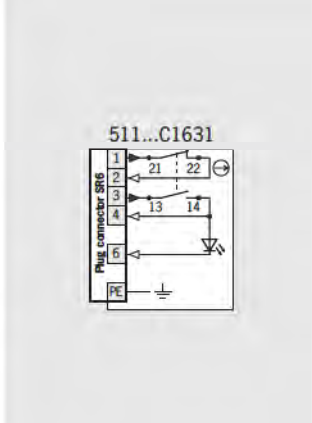
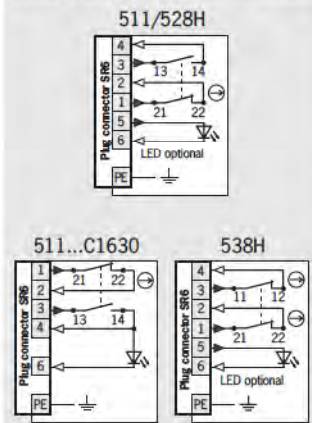


Plug connector SR11
11-pin + PE



For mating connectors
see page 120

Wiring diagrams



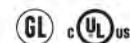
Ordering table

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	RS Roller plunger	2 Plug connector SR6	511 ¹⁾ 1 NC ⊖ + 1 NO	C1630 Alternative wiring	090 024 ¹⁾ NZ2RS-511	090 147 ¹⁾ NZ2RS-511L060	091 302 ¹⁾ NZ2RS-511L110	089 622 ¹⁾ NZ2RS-511L060GE
			511 ¹⁾ 1 NC ⊖ + 1 NO		On request	On request	On request	082 400 ¹⁾ NZ2RS-511L060C1630
			528H 1 NC ⊖ + 1 NO		090 950 NZ2RS-528	088 197 NZ2RS-528L060	On request	On request
			538H 2 NC ⊖		090 951 NZ2RS-538	090 952 NZ2RS-538L060	On request	On request
		2 Plug connector SR6 angled	511 ¹⁾ 1 NC ⊖ + 1 NO	C1631 Alternative wiring	On request	On request	On request	079 350 ¹⁾ NZ2RS-511L060C1631
			1...9C 3 NC ⊖ + 1 NO		077 362 ³⁾ NZ1RS-2131-9C-GMMF	-	-	-
		2 Plug connector MR9	3131H 2 NC ⊖ + 2 NO		087 074 NZ1RS-3131-9C-GMMF	-	-	-
			2121H 4 NC ⊖		090 974 NZ2RS-2121	-	-	-
		2 Plug connector SR11	2131H 3 NC ⊖ + 1 NO		090 149 NZ2RS-2131	-	-	-
			3131H 2 NC ⊖ + 2 NO		090 954 NZ2RS-3131	-	-	-

¹⁾ No BG approval for switching element 511

³⁾ No UL approval for safety switch 077 362

Position switch NZ.RG with roller plunger



- Version C according to EN 50041 (plastic roller $\varnothing$ 12 mm)
- LED optional
- Plug connector optional



Approach direction

Horizontal
Can be adjusted in 90° steps.

LED function display (optional)

A function display is available for the following voltage ranges:

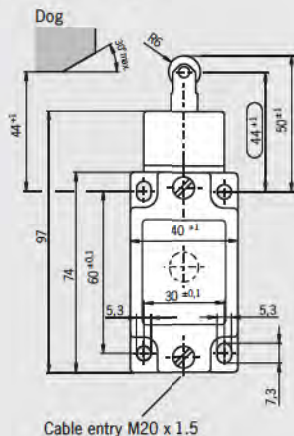
- AC/DC 12-60 V red or yellow
- AC 230 V $\pm 15\%$ red

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

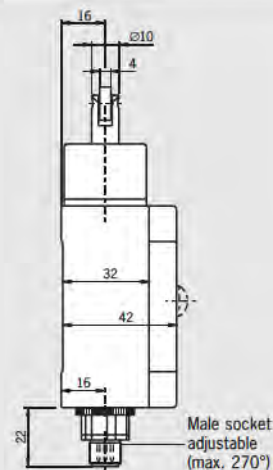
Dimension drawings



For cable glands
see page 124

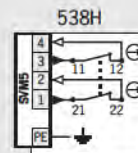
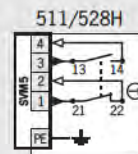
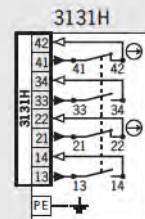
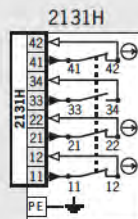
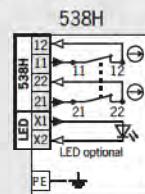
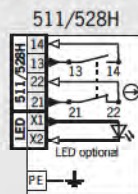
Plug connector SVM5

M12 plug, 5-pin



For mating connectors
see page 124

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Function display		
				Without LED	12-60 V red LED	230 V red LED
NZ	RG Roller plunger	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC $\ominus$ + 1 NO	088 605 ¹⁾ NZ1RG-511-M	089 052 ¹⁾ NZ1RG-511L060-M	089 054 ¹⁾ NZ1RG-511L220-M
			528H 1 NC $\ominus$ + 1 NO	090 932 NZ1RG-528-M	090 008 NZ1RG-528L060-M	On request
			538H 2 NC $\ominus$	090 933 NZ1RG-538-M	090 009 NZ1RG-538L060-M	On request
			2131H 3 NC $\ominus$ + 1 NO	090 934 NZ1RG-2131-M	-	-
			3131H 2 NC $\ominus$ + 2 NO	090 935 NZ1RG-3131-M	-	-
		2 Plug connector SVM5 (M12 plug)	511 1 NC $\ominus$ + 1 NO	090 026 NZ2RG-511SVM5	On request	-
			528H 1 NC $\ominus$ + 1 NO	090 961 NZ2RG-528SVM5	On request	-
			538H 2 NC $\ominus$	090 962 NZ2RG-538SVM5	On request	-

¹⁾ No BG approval for switching element 511



Plug connector SR6
6-pin + PE

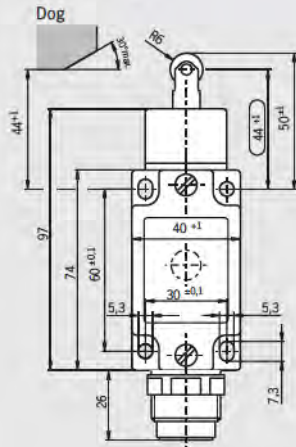


Plug connector SR6 angled
6-pin + PE

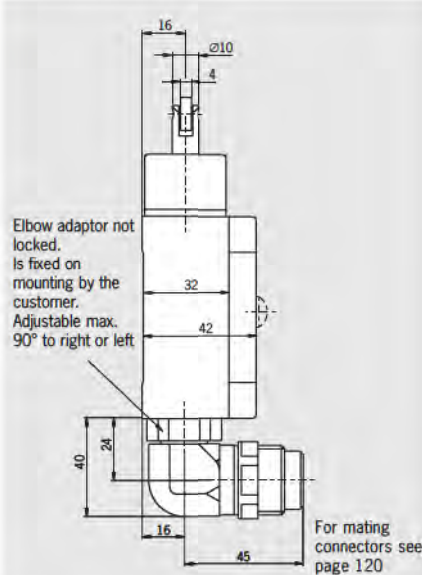


Plug connector SR11
11-pin + PE

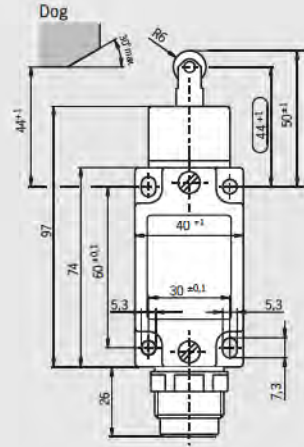
Dimension drawings



For mating connectors
see page 120

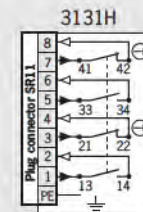
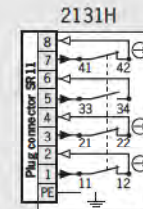
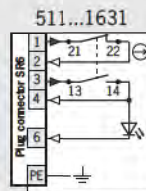
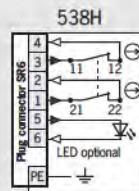
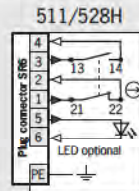


For mating
connectors see
page 120



For mating connectors
see page 120

Wiring diagrams Switch not actuated

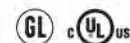


Ordering table

Series	Actuator	Connection	Switching element	Version	Function display		
					Without LED	12-60 V red LED	12-60 V yellow LED
NZ	RG Roller plunger	2 Plug connector SR6	511 ¹⁾ 1 NC $\ominus$ + 1 NO		090 032 ¹⁾ NZ2RG-511	091 284 ¹⁾ NZ2RG-511L060	On request
			528H 1 NC $\ominus$ + 1 NO		090 943 NZ2RG-528	090 944 NZ2RG-528L060	On request
			538H 2 NC $\ominus$		090 945 NZ2RG-538	090 946 NZ2RG-538L060	On request
		2 Plug connector SR6 angled	511 ¹⁾ 1 NC $\ominus$ + 1 NO	C1631 Alternative wiring	On request	On request	074 562 ¹⁾ NZ2RG-511L060C1631
		2 Plug connector SR11	2131H 3 NC $\ominus$ + 1 NO		090 947 NZ2RG-2131	-	-
			3131H 2 NC $\ominus$ + 2 NO		090 948 NZ2RG-3131	-	-

¹⁾ No BG approval for switching element 511

Position switch NZ.RL with roller plunger



- ▶ Steel roller Ø 18 mm
- ▶ With ball bearing Ø 16 mm optional
- ▶ LED optional
- ▶ Plug connector optional



Approach direction

Horizontal
Can be adjusted in 90° steps.

LED function display (optional)

A function display is available for the following voltage ranges:

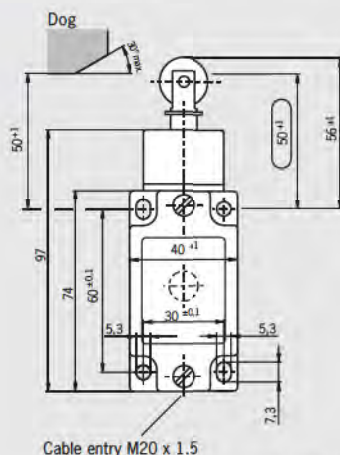
- AC/DC 12-60 V red
- AC 110 V ±15% red
- AC 230 V ±15% red

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

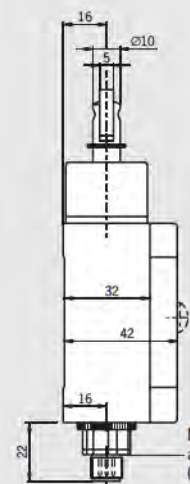
Dimension drawings



For cable glands
see page 124

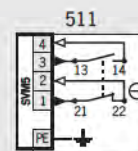
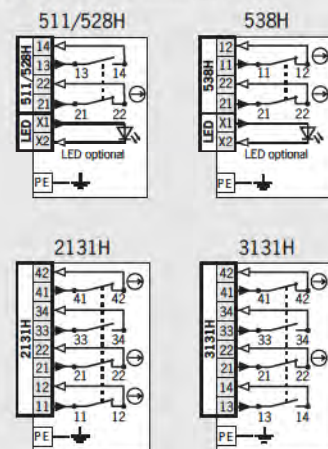
Plug connector SVM5

M12 plug, 5-pin



For mating connectors
see page 124

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Function display			
				Without LED	12-60 V red LED	110 V red LED	230 V red LED
NZ	RL Roller plunger	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC ⊖ + 1 NO	088 614 ¹⁾ NZ1RL-511-M	088 996 ¹⁾ NZ1RL-511L060-M	089 080 ¹⁾ NZ1RL-511L110-M	089 079 ¹⁾ NZ1RL-511L220-M
			528H 1 NC ⊖ + 1 NO	090 937 NZ1RL-528-M	090 938 NZ1RL-528L060-M	On request	089 084 NZ1RL-528L220-M
			538H 2 NC ⊖	090 939 NZ1RL-538-M	090 940 NZ1RL-538L060-M	On request	On request
			2131H 3 NC ⊖ + 1 NO	090 941 NZ1RL-2131-M	-	-	-
			3131H 2 NC ⊖ + 2 NO	090 942 NZ1RL-3131-M	-	-	-
		2 Plug connector SVM5 (M12 plug)	511 1 NC ⊖ + 1 NO	090 028 NZ2RL-511SVM5	On request	-	-

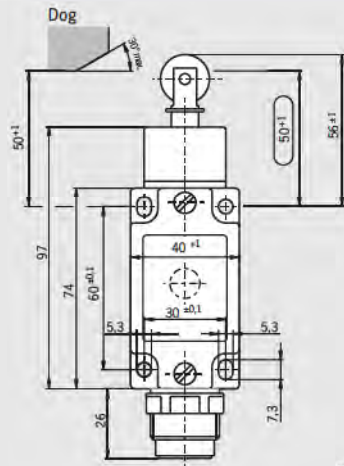
¹⁾ No BG approval for switching element 511



Plug connector SR6 6-pin + PE

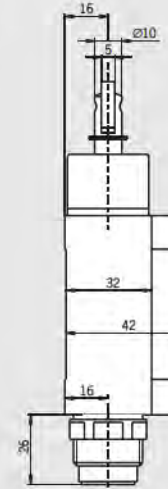
Plug connector SR11 11-pin + PE

Dimension drawings



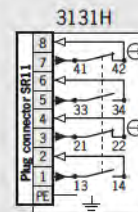
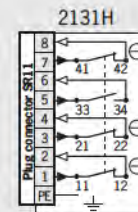
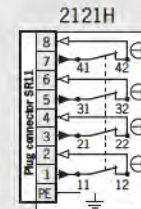
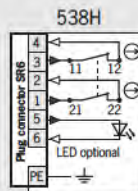
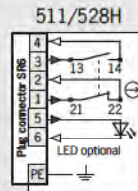
For mating connectors
see page 120

Note:
Roller diameter 16 mm on
version with ball bearing
(C1831)



For mating connectors
see page 120

Wiring diagrams Switch not actuated

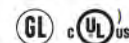


Ordering table

Series	Actuator	Connection	Switching element	Version	Function display	
					Without LED	12-60 V red LED
NZ	RL Roller plunger	2 Plug connector SR6	511 ¹⁾ 1 NC ⊖ + 1 NO		090 025 ¹⁾ NZ2RL-511	090 955 ¹⁾ NZ2RL-511L060
			528H 1 NC ⊖ + 1 NO		090 956 NZ2RL-528	091 282 NZ2RL-528L060
			538H 2 NC ⊖		090 957 NZ2RL-538	091 278 NZ2RL-538L060
		2 Plug connector SR11	2121H 4 NC ⊖		090 975 NZ2RL-2121	-
			2121H 4 NC ⊖	C1831 Ball bearing	095 806 NZ2RL-2121C1831	-
			2131H 3 NC ⊖ + 1 NO		090 958 NZ2RL-2131	-
			3131H 2 NC ⊖ + 2 NO		090 959 NZ2RL-3131	-

¹⁾ No BG approval for switching element 511

Position switch NZ.HS with roller lever arm



- Version A according to EN 50041 (steel roller $\varnothing 18$)
- 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).

LED function display (optional)

A function display is available for the following voltage ranges:

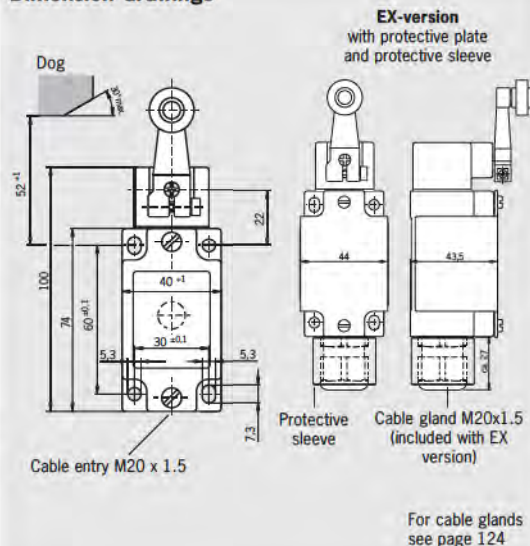
- AC/DC 12-60 V red or yellow
- AC 110 V $\pm 15\%$ red
- AC 230 V $\pm 15\%$ red

Switching elements (see also page 13/14)

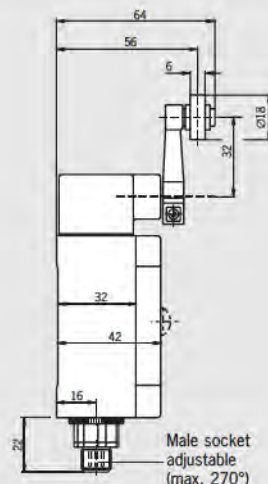
- 511** Snap-action switching element
1 NC $\ominus$ + 1 NO
- 528H** Slow-action switching element
1 NC $\ominus$ + 1 NO
- 538H** Slow-action switching element
2 NC $\ominus$
- 2121H** Slow-action switching element
4 NC $\ominus$
- 2131H** Slow-action switching element
3 NC $\ominus$ + 1 NO
- 3131H**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

Cable entry M20 x 1.5

Dimension drawings

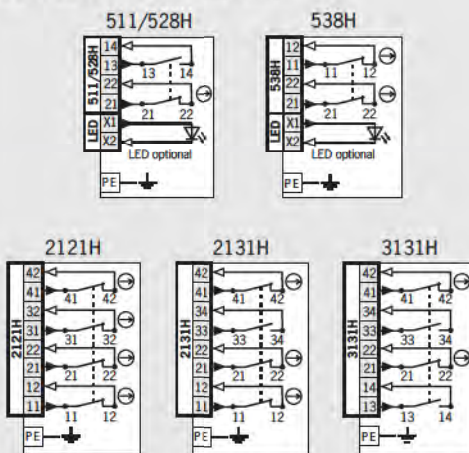


Plug connector SVM5 M12 plug, 5-pin



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	230 V red LED	12-60 V yellow LED
NZ	HS Lever arm	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC $\ominus$ + 1 NO		079 953 ¹⁾ NZ1HS-511-M	090 035 ¹⁾ NZ1HS-511L060-M	090 036 ¹⁾ NZ1HS-511L110-M	090 037 ¹⁾ NZ1HS-511L220-M	090 038 ¹⁾ NZ1HS-511L060GE-M
			528H 1 NC $\ominus$ + 1 NO		090 970 NZ1HS-528-M	090 971 NZ1HS-528L060-M	090 050 NZ1HS-528L110-M	090 052 NZ1HS-528L220-M	090 049 NZ1HS-528L060GE-M
			538H 2 NC $\ominus$		090 972 NZ1HS-538-M	090 760 NZ1HS-538L060-M	On request	On request	On request
			2121H 4 NC $\ominus$		090 254 NZ1HS-2121-M	-	-	-	-
			2131H 3 NC $\ominus$ + 1 NO		090 973 NZ1HS-2131-M	-	-	-	-
			3131H 2 NC $\ominus$ + 2 NO		090 747 NZ1HS-3131-M	-	-	-	-
			3131H 2 NC $\ominus$ + 2 NO	ATEX incl. cable gland	094 167 ²⁾ NZ1HS-3131-M-EX	-	-	-	-
		2 Plug connector SVM5 (M12 plug)	511 1 NC $\ominus$ + 1 NO		090 867 NZ2HS-511SVM5	On request	-	-	On request
			528H 1 NC $\ominus$ + 1 NO		090 868 NZ2HS-528SVM5	On request	-	-	On request
			538H 2 NC $\ominus$		090 869 NZ2HS-538SVM5	On request	-	-	On request

1) No BG approval for switching element 511

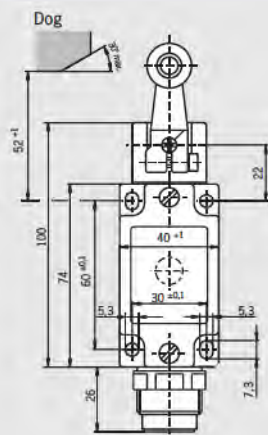
2) II 3 G EEx nC IIC T5 (reduced resistance to impact acc. to EN 61241-1; max. 4 J) / II 3 D EEx tD A22 T90°C (reduced resistance to impact acc. to EN 61241-1; max. 4 J)



Plug connector SR6 6-pin + PE

Plug connector SR11 11-pin + PE

Dimension drawings

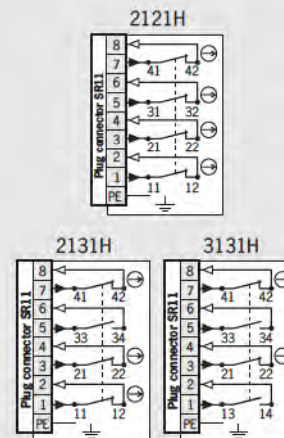
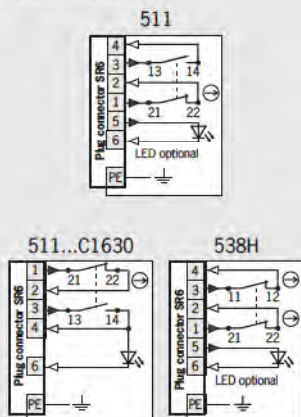


For mating connectors
see page 120



For mating connectors
see page 120

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Version	Function display		
					Without LED	12-60 V red LED	12-60 V yellow LED
NZ	HS Lever arm	2 Plug connector SR6	511 ¹⁾ 1 NC $\ominus$ + 1 NO	C1630 Alternative wiring	089 093 ¹⁾ NZ2HS-511	089 094 ¹⁾ NZ2HS-511L060	090 697 ¹⁾ NZ2HS-511L060GE
			511 ¹⁾ 1 NC $\ominus$ + 1 NO		On request	On request	078 473 ¹⁾ NZ2HS-511L060C1630
			528H 1 NC $\ominus$ + 1 NO		090 852 NZ2HS-528	088 196 NZ2HS-528L060	On request
			538H 2 NC $\ominus$		090 853 NZ2HS-538	090 854 NZ2HS-538L060	On request
			2121H 4 NC $\ominus$		091 264 NZ2HS-2121	-	-
		2 Plug connector SR11	2131H 3 NC $\ominus$ + 1 NO		090 146 NZ2HS-2131	-	-
			3131H 2 NC $\ominus$ + 2 NO		090 856 NZ2HS-3131	-	-

¹⁾ No BG approval for switching element 511

Please turn over

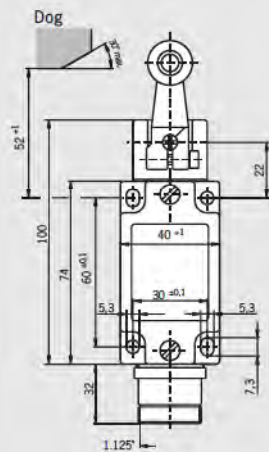
For safety precautions see page 179
For technical data see page 151



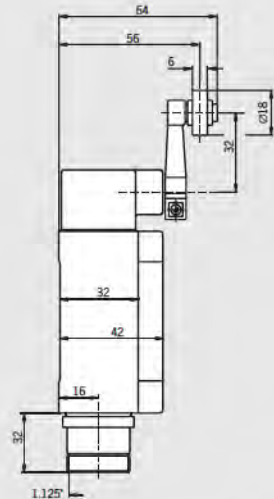
Plug connector MR8
7-pin + PE

Plug connector MR9
8-pin + PE

Dimension drawings

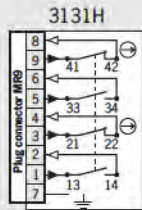
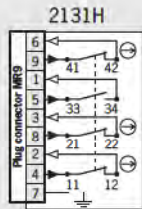
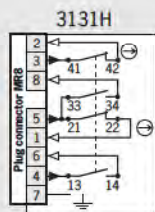


For mating connectors
see page 123



For mating connectors
see page 123

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection element	Switching Without LED	Function display	
				12-60 V red LED	12-60 V yellow LED
NZ	HS Lever arm	1...8C Plug connector MR8	3131H 2 NC ⊖ + 2 NO	086 574 NZ1HS-3131-8C-Ford / PT60577-101K01	-
			2131H 3 NC ⊖ + 1 NO	077 391 ³ NZ1HS-2131-9C-GMMF	-
		1...9C Plug connector MR9	3131H 2 NC ⊖ + 2 NO	073 508 NZ1HS-3131-9C-GMMF	-

3) No UL approval for safety switch 077 391

Position switch NZ.HB with roller lever arm



- Version A according to EN 50041 (plastic 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).

LED function display (optional)

A function display is available for the following voltage ranges:

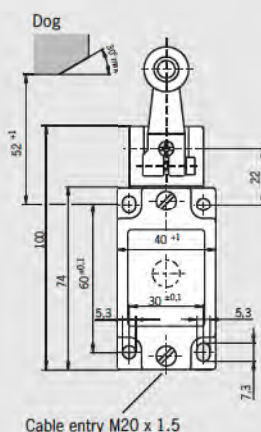
- AC/DC 12-60 V red or yellow
- AC 230 V ±15% red

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 ⊖
- **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

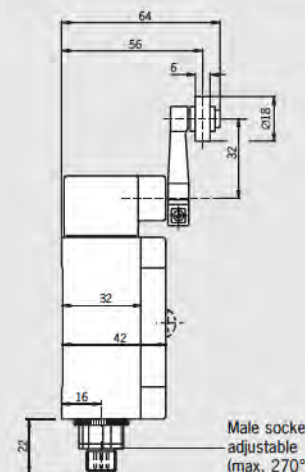


Cable entry M20 x 1.5

For cable glands see page 124

Plug connector SVM5

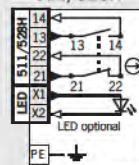
M12 plug, 5-pin



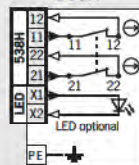
For mating connectors see page 124

Wiring diagrams Switch not actuated

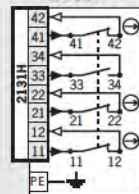
511/528H



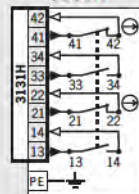
538H



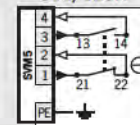
2131H



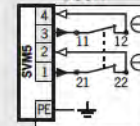
3131H



511/528H



538H



Ordering table

Series	Actuator	Connection	Switching element	Function display			
				Without LED	12-60 V red LED	230 V red LED	12-60 V yellow LED
NZ	HB Lever arm	Cable entry M20 x 1.5	511 ¹⁾ 1 NC ⊖ + 1 NO	079 952 ¹⁾ NZ1HB-511-M	090 039 ¹⁾ NZ1HB-511L060-M	090 040 ¹⁾ NZ1HB-511L220-M	086 525 ¹⁾ NZ1HB-511L060GE-M
			528H 1 NC ⊖ + 1 NO	088 199 NZ1HB-528-M	090 965 NZ1HB-528L060-M	090 051 NZ1HB-528L220-M	086 527 NZ1HB-528L060GE-M
			538H 2 NC ⊖	090 966 NZ1HB-538-M	090 967 NZ1HB-538L060-M	On request	On request
			2131H 3 NC ⊖ + 1 NO	090 968 NZ1HB-2131-M	-	-	-
			3131H 2 NC ⊖ + 2 NO	090 969 NZ1HB-3131-M	-	-	-
	Plug connector SVM5 (M12 plug)		511 1 NC ⊖ + 1 NO	090 861 NZ2HB-511SVM5	On request	-	On request
			528H 1 NC ⊖ + 1 NO	090 864 NZ2HB-528SVM5	On request	-	On request
			538H 2 NC ⊖	090 862 NZ2HB-538SVM5	On request	-	On request

¹⁾ No BG approval for switching element 511

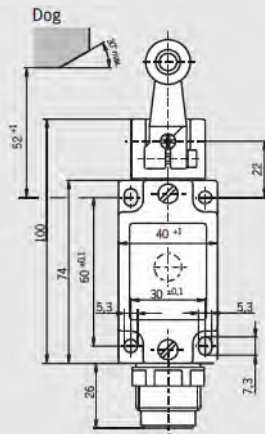


Plug connector SR6 6-pin + PE

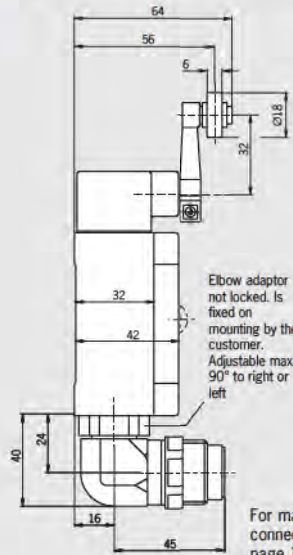
Plug connector SR6 angled 6-pin + PE

Plug connector SR11 11-pin + PE

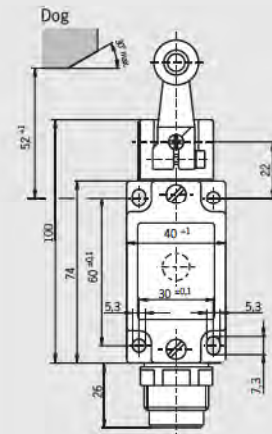
Dimension drawings



For mating connectors
see page 120

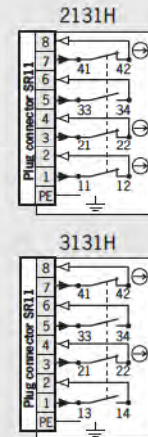
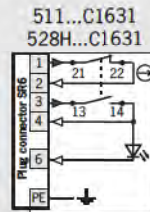
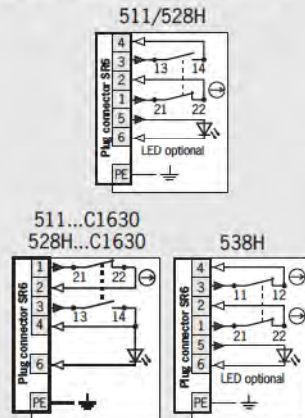


For mating
connectors see
page 120



For mating connectors
see page 120

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Version	Function display			
					Without LED	12-60 V red LED	230 V red LED	12-60 V yellow LED
NZ	HB Lever arm	2 Plug connector SR6	511 ¹⁾ 1 NC ⊕ + 1 NO	C1630 Alternative wiring	089 091 ¹⁾ NZ2HB-511	089 092 ¹⁾ NZ2HB-511L060	On request	090 719 ¹⁾ NZ2HB-511L060GE
			511 ¹⁾ 1 NC ⊕ + 1 NO		On request	On request	On request	054 121 ¹⁾ NZ2HB-511L060C1630
			528H 1 NC ⊕ + 1 NO		090 845 NZ2HB-528	090 846 NZ2HB-528L060	091 281 NZ2HB-528L220	091 301 NZ2HB-528L060GE
			528H 1 NC ⊕ + 1 NO	C1630 Alternative wiring	On request	On request	On request	091 346 NZ2HB-528L060C1630
			538H 2 NC ⊕		090 847 NZ2HB-538	090 848 NZ2HB-538L060	On request	On request
			511 ¹⁾ 1 NC ⊕ + 1 NO		On request	On request	On request	054 122 ¹⁾ NZ2HB-511L060C1631
		2 Plug connector SR6 angled	528H 1 NC ⊕ + 1 NO	C1631 Alternative wiring	On request	On request	On request	091 347 NZ2HB-528L060C1631
			2131H 3 NC ⊕ + 1 NO		090 136 NZ2HB-2131	-	-	-
			3131H 2 NC ⊕ + 2 NO		090 137 NZ2HB-3131	-	-	-

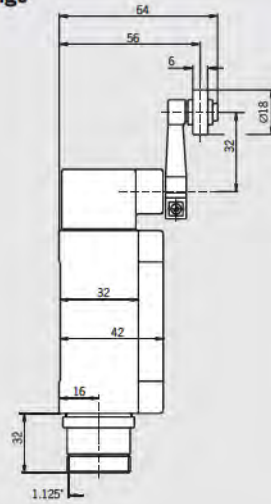
1) No BG approval for switching element 511



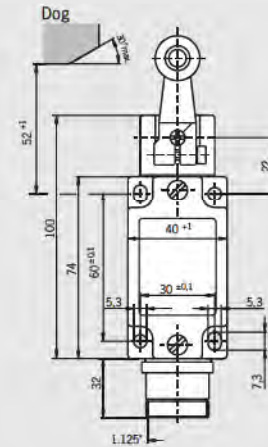
Plug connector MR9 8-pin + PE

Plug connector MR10 9-pin + PE

Dimension drawings

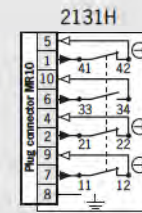
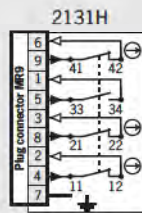


For mating connectors
see page 123



For mating connectors
see page 123

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	12-60 V yellow LED
NZ	HB Lever arm	1...9C Plug connector MR9	2131H 3 NC $\ominus$ + 1 NO	077 390 NZ1HB-2131-9C-GMMF	-	-	-
		1...10C Plug connector MR10	2131H 3 NC $\ominus$ + 1 NO	095 898 NZ1HB-2131-10C-FW	-	-	-

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:

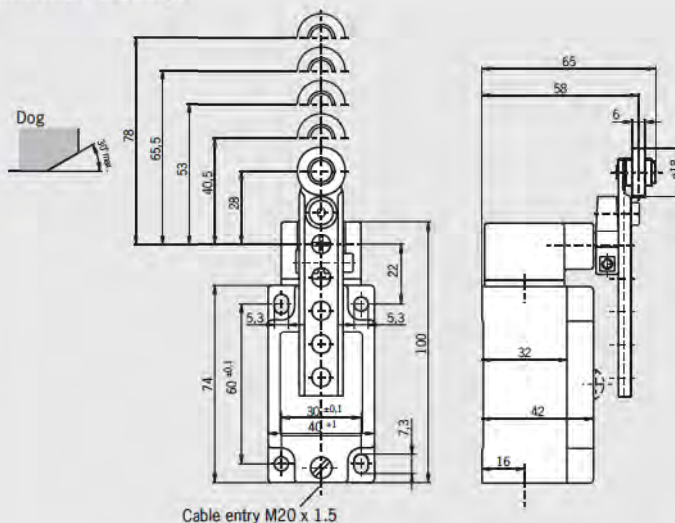
- AC/DC 12-60 V red or yellow
- AC 230 V ±15% red

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

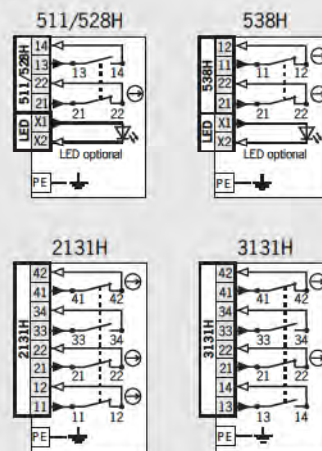
Cable entry M20 x 1.5

Dimension drawings



For cable glands see page 124

Wiring diagrams Switch not actuated



Ordering table

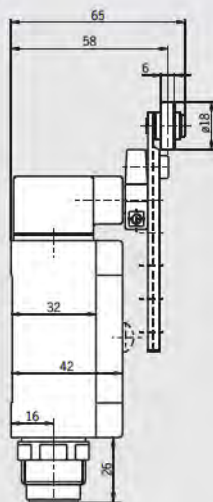
Series	Actuator	Connection	Switching element	Function display			
				Without LED	12-60 V red LED	230 V red LED	230 V yellow LED
NZ	PS Adjustable lever arm	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC ⊖ + 1 NO	088 613 ¹⁾ NZ1PS-511-M	On request	On request	On request
			528H 1 NC ⊖ + 1 NO	090 874 NZ1PS-528-M	090 430 NZ1PS-528L060-M	093 521 NZ1PS-528L220-M	093 523 NZ1PS-528L220GE-M
			538H 2 NC ⊖	090 875 NZ1PS-538-M	On request	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



Plug connector SR6
6-pin + PE

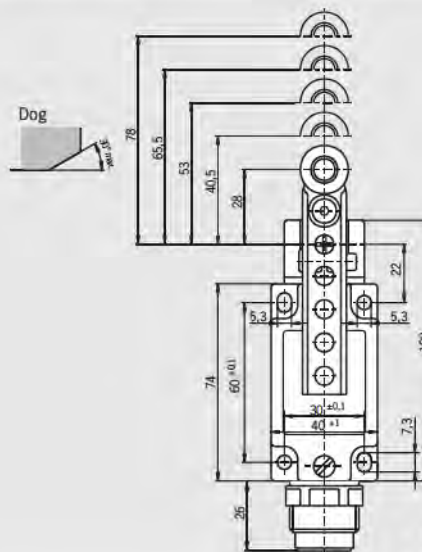
Dimension drawings



For mating connectors
see page 120

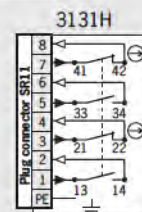
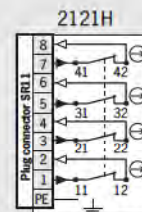
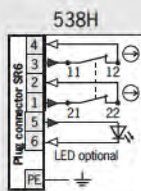
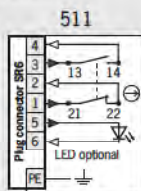


Plug connector SR11
11-pin + PE



For mating connectors
see page 120

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Function display	
				Without LED	12-60 V red LED
NZ	PS Adjustable lever arm steel roller	2 Plug connector SR6	511 ¹⁾ 1 NC ⊖ + 1 NO	093 112 ¹⁾ NZ2PS-511	090 152 ¹⁾ NZ2PS-511L060
			538H 2 NC ⊖	On request	091 632 NZ2PS-538L060
		2 Plug connector SR11	2121H 4 NC ⊖	091 268 NZ2PS-2121	-
			2131H 3 NC ⊖ + 1 NO	090 151 NZ2PS-2131	-
			3131H 2 NC ⊖ + 2 NO	090 150 NZ2PS-3131	-

1) No BG approval for switching element 511

Position switch NZ.PB with adjustable lever arm

► Plastic roller Ø 18



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

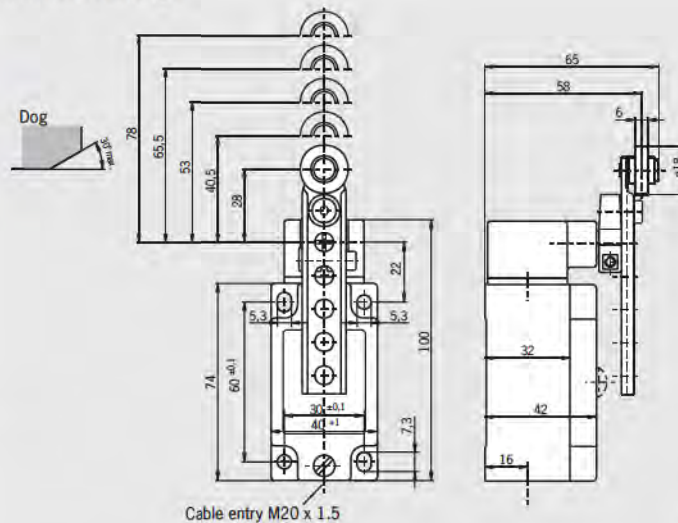
Lever arm length can be adjusted from 28 mm to 78 mm in steps of 12.5 mm.

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 ⊖
- **2131H** Slow-action switching element
3 NC ⊖ + 1 NO
- **3131H** Slow-action switching element
2 NC ⊖ + 2 NO

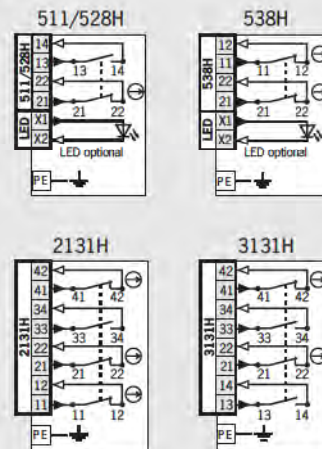
Cable entry M20 x 1.5

Dimension drawings



For cable glands see page 124

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Function display
NZ	PB Adjustable lever arm	1 Cable entry M20 x 1.5	511 ¹⁾ 1 NC ⊖ + 1 NO	Without LED 088 618 ¹⁾ NZ1PB-511-M
			528H 1 NC ⊖ + 1 NO	090 870 NZ1PB-528-M
			538H 2 NC ⊖	090 871 NZ1PB-538-M
			2131H 3 NC ⊖ + 1 NO	090 872 NZ1PB-2131-M
			3131H 2 NC ⊖ + 2 NO	090 873 NZ1PB-3131-M

1) No BG approval for switching element 511

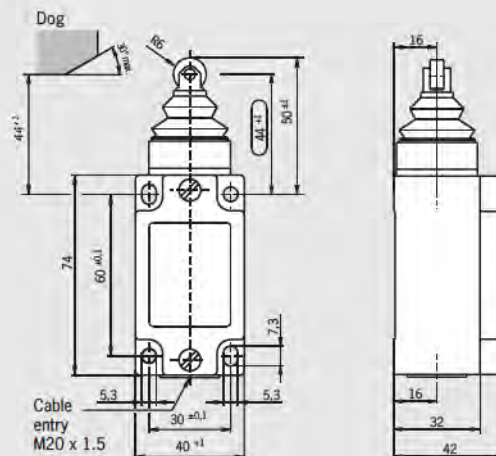
Position switch NZ.RS.C1588 with roller plunger



- **Version C** according to EN 50041
(steel roller $\varnothing$ 12 mm)
- **Exterior bellows**
(CR-based material)

Cable entry M20 x 1.5

Dimension drawings



For cable glands
see page 124

Approach direction



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

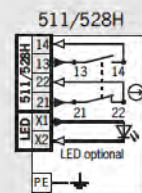
Exterior bellows

Protection against heavy soiling (dust) and ag-
gressive coolants.

Switching elements (see also page 13)

- **511** Snap-action switching element
1 NC $\ominus$ + 1 NO
- **528H** Slow-action switching element
1 NC $\ominus$ + 1 NO

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Version	Function display Without LED
NZ	RS Roller plunger	1 Cable entry	511 ¹⁾ 1 NC $\ominus$ + 1 NO	C1588 Exterior bellows, red cover	091 352 ¹⁾ NZ1RS-511-MC1588
		M20 x 1.5	528H 1 NC $\ominus$ + 1 NO	C1588 Exterior bellows, red cover	091 339 NZ1RS-528-MC1588

1) No BG approval for switching element 511

Position switch NZ.HB.C569 with roller lever arm



- ▶ Large plastic roller Ø 30 mm
- ▶ LED optional

Cable entry M20 x 1.5



Approach direction



Horizontal

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

Switching direction

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

LED function display (optional)

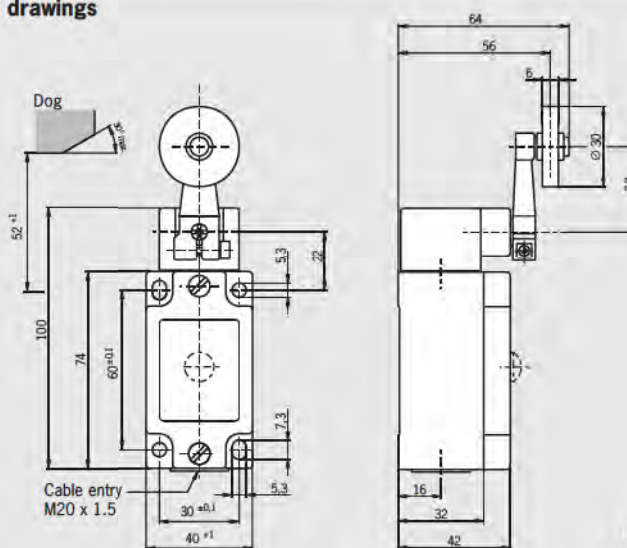
A function display is available for the following voltage ranges:

- AC/DC 12-60 V red

Switching elements (see also page 13)

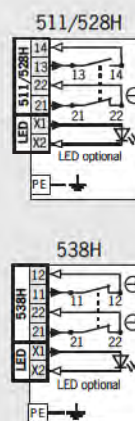
- 511 Snap-action switching element
1 NC $\ominus$ + 1 NO
- 528H Slow-action switching element
1 NC $\ominus$ + 1 NO
- 538H Slow-action switching element
2 NC $\ominus$

Dimension drawings



For cable glands
see page 124

Wiring diagrams



Ordering table

Series	Actuator	Connection	Switching element	Version	Function display	
					Without LED	12-60 V red LED
NZ	HB Lever arm	1 Cable entry M20 x 1.5	511 ¹⁾	C569	079 965 ¹⁾	091 091 ¹⁾
			1 NC $\ominus$ + 1 NO	Large plastic roller $\varnothing$ 30 mm	NZ1HB-511-MC569	NZ1HB-511L060-MC569
			528H	C569	079 946	091 330
			1 NC $\ominus$ + 1 NO	Large plastic roller $\varnothing$ 30 mm	NZ1HB-528-MC569	NZ1HB-528L060-MC569
			538H	C569	079 999	On request
			2 NC $\ominus$	Large plastic roller $\varnothing$ 30 mm	NZ1HB-538-MC569	

1) No BG approval for switching element 511

GL

- Cable entry M20 x 1.5**



Position switch NZ.HS.C1883 with roller lever arm

- Steel roller Ø 19 mm
- With ball bearing
- LED on request



Approach direction



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

Switching direction

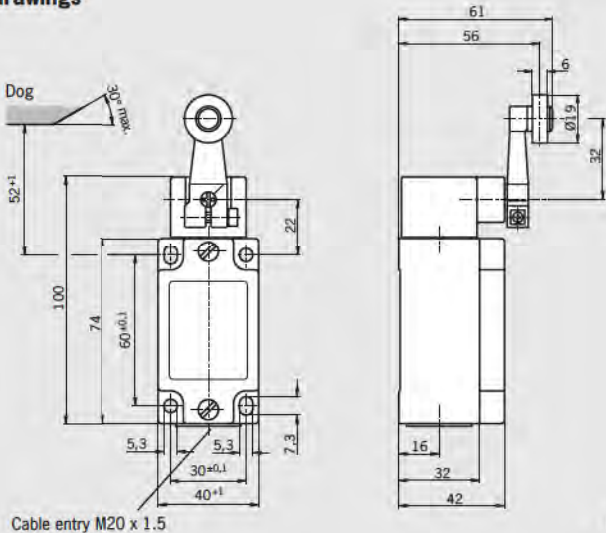
Right, left or both sides (see page 9).

Switching elements (see also page 13)

- **511** Snap-action switching element
1 NC $\ominus$ + 1 NO

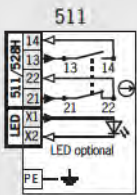
Cable entry M20 x 1.5

Dimension drawings



For cable glands see page 124

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Switching element	Version	Function display Without LED
NZ	HS Lever arm	1 Cable entry M20 x 1.5	511 1 NC $\ominus$ + 1 NO	C1833 With ball bearing	091 312 NZ1HS-511-MC1833

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	 							
Parameter	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		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								
Parameter	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 511		Slow-action switching element 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)								
Parameter	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)

Connection, plug connector SR6



Parameter		Value	Unit
Connection		Plug connector according to DIN 43651	
Version		SR6 (6-pin + PE)	
Degree of protection according to IEC 60529		IP 65 ²⁾	
Rated insulation voltage U_i		250	V AC/DC
Switching element		Snap-action switching element 511	Slow-action switching element 528H, 538H
Conventional thermal current I_{th}		6	A
Short circuit protection according to IEC 60269-1 (control circuit fuse)		6	A gG
Utilization category to IEC 60947-5-1	AC-15	I_e 6 A U_e 230 V	
	DC-13	I_e 6 A U_e 24 V	

Connection, plug connector MR8



Parameter		Value	Unit
Connection		Plug connector	
Version		MR8 (7-pin + PE)	
Degree of protection according to IEC 60529		IP 65 ²⁾	
Rated insulation voltage U_i		250	V AC/DC
Switching element		Slow-action switching element 3131H	
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	AC15	I_e 4 A U_e 230 V	
	DC13	I_e 4 A U_e 24 V	

Connection, plug connector MR9



Parameter		Value	Unit
Connection		Plug connector	
Version		MR9 (8-pin + PE)	
Degree of protection according to IEC 60529		IP 65 ²⁾	
Rated insulation voltage U_i		250	V AC/DC
Switching element		Slow-action switching element 2131H, 3131H	
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	AC15	I_e 4 A U_e 230 V	
	DC13	I_e 4 A U_e 24 V	

Connection, plug connector MR10



Parameter		Value	Unit
Connection		Plug connector	
Version		MR10 (9-pin + PE)	
Degree of protection according to IEC 60529		IP 65 ²⁾	
Rated insulation voltage U_i		250	V AC/DC
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	AC15	I_e 4 A U_e 230 V	
	DC13	I_e 4 A U_e 24 V	

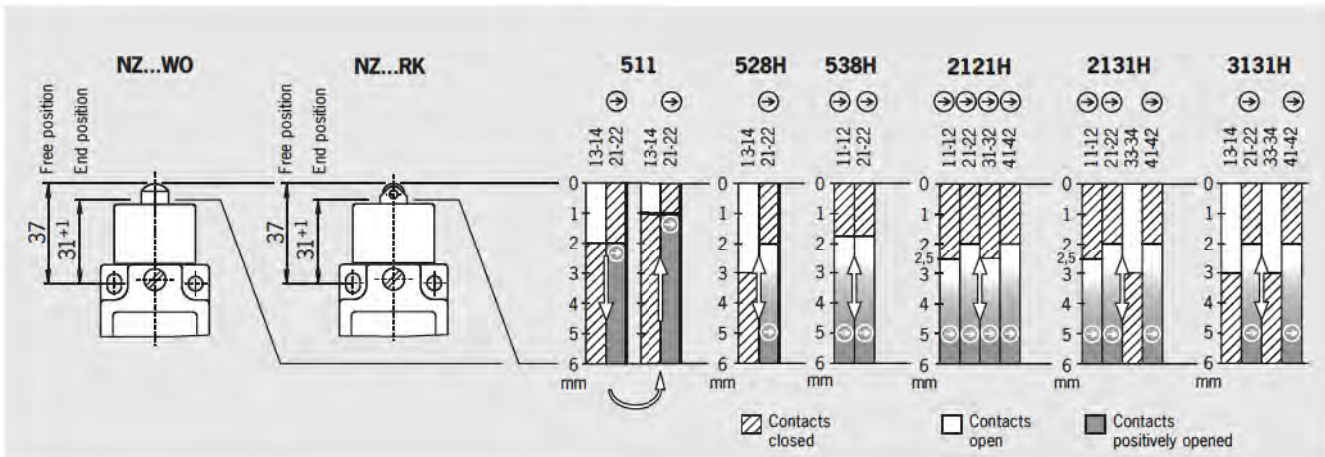
Connection, plug connector SR11



Parameter		Value	Unit
Connection		Plug connector	
Version		SR11 (11-pin + PE)	
Degree of protection according to IEC 60529		IP 65 ²⁾	
Rated insulation voltage U_i		50	V AC/DC
Switching element		Slow-action switching element 2121H, 2131H, 3131H	
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	AC15	I_e 4 A U_e 50 V	
	DC13	I_e 4 A U_e 24 V	

2) Screwed tight with the related plug connector (see page 120 and 123)

Travel diagram NZ.WO/NZ.RK



Travel diagram NZ.RS/NZ.RG

