

Selection table for safety switches NX

Connection			
M	Thread M20x1.5 for cable glands		
	Switching element		
	Four contacts 4 NC ⊖ or 3 NC ⊖ + 1 NO or 2 NC ⊖ + 2 NO		
Connection	Switching element		Page
M	four contacts		
●	●		88

Safety switch NX



- ▶ Cable entry M20 x 1.5
- ▶ LED indicator optional



Approach direction



Horizontal and vertical
Can be adjusted in 90° steps

Switching elements (see also page 13/14)

- ▶ **2121** Slow-action switching element
4 NC ⊖
- ▶ **2131** Slow-action switching element
3 NC ⊖ + 1 NO
- ▶ **3131** Slow-action switching element
2 NC ⊖ + 2 NO

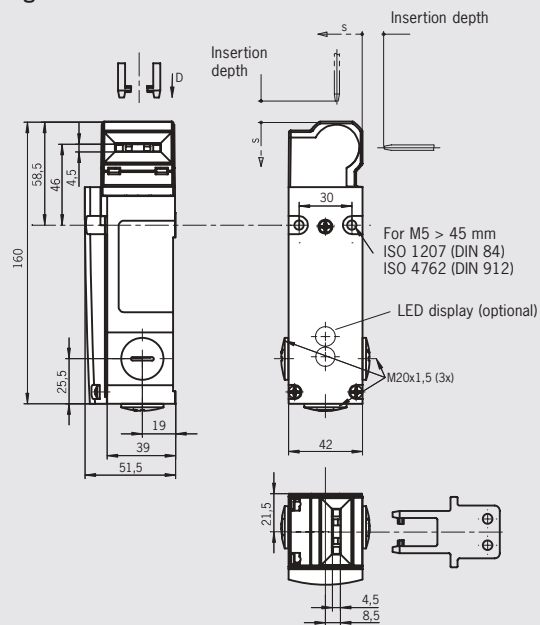
LED function display (optional)

A function display (2 LEDs, red and green) is available for the following voltage ranges:

- ▶ DC 24 V +10%, -15%

Cable entry M20 x 1.5

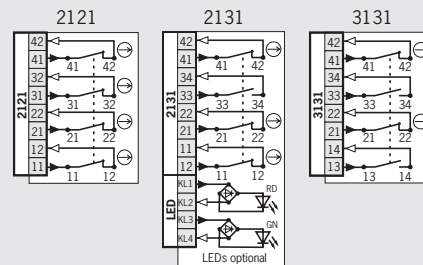
Dimension drawing



Please order actuator separately (see page 106)

For cable glands see page 115

Wiring diagrams Actuator inserted



Ordering table

Series	Connection	Switching element	Version	Order No. / Item
NX	1 Cable entry 3 x M20 x 1.5	2121 4 NC ⊖		092 625 NX1-2121A-M
		2131 3 NC ⊖ + 1 NO		092 624 NX1-2131A-M
		2131 3 NC ⊖ + 1 NO	L024 LED display DC 24 V	091 682 NX1-2131AL024-M
		3131 2 NC ⊖ + 2 NO		092 626 NX1-3131A-M

Safety switch NX



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	Die-cast alloy, cathodically dipped		
Mechanical life	2 x 10 ⁶ operating cycles		
Ambient temperature	- 20 ... + 80		°C
Weight	Approx. 0.4		kg
Max. approach speed	20		m/min
Actuating force	40		N
Extraction force	50		N
Retention force	10		N
Insertion depth	Standard actuators	Overtravel actuator	
Required insertion depths s_{min}	32	32	mm
Maximum insertion depth s_{max}	33	40	mm
Actuator travel (in the locked state)	6	13	mm

Switching element

Parameter	Value			Unit
Switching principle	Slow-action switching element			
Switching elements with 4 switching elements	2121 4 NC	2131 3 NC + 1 NO	3131 2 NC + 2 NO	
Switching current, min., at 24 V DC	1			mA
Switching voltage, min., at 10 mA	12			V
Contact material	Silver alloy, gold flashed			

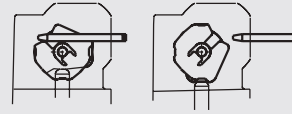
Connection, cable entry M20 x 1.5

Parameter	Value		Unit
Connection	Screw terminal		
Version	M20 x 1.5		
Conductor cross-section	0.34 ... 1.5		mm ²
Degree of protection according to IEC 60529	IP 67		
Rated insulation voltage U_i	250		V AC/DC
Rated impulse withstand voltage U_{imp}	2.5		kV
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 230 V	
	DC-13	I_e 4 A U_e 24 V	

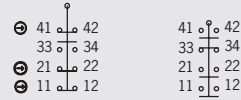
Switching functions NX

Actuator inserted

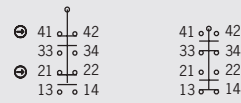
Actuator removed



NX.-2131...



NX.-3131...



NX.-2121...

