

## Selection table for safety switches NX

Connection			
<b>M</b>	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		94
●	●		





## Safety switch NX

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



### Approach direction



Horizontal and vertical  
Can be adjusted in 90° steps

### LED function display (optional)

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

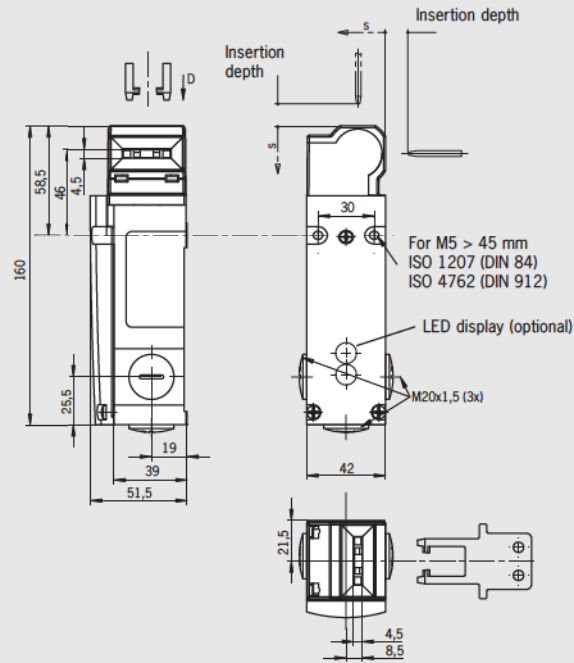
- ▶ DC 24 V +10%, -15%

### 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

## Cable entry M20 x 1.5

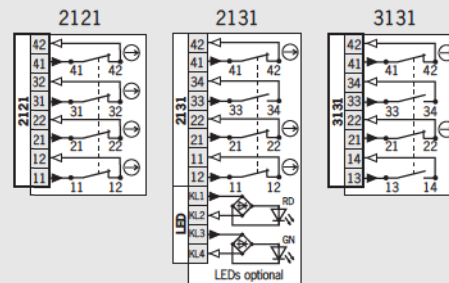
### Dimension drawing



Please order actuator separately (see page 114)

For cable glands see page 124

### 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 <sup>6</sup> 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	<b>2121</b> 4 NC	<b>2131</b> 3 NC + 1 NO	<b>3131</b> 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

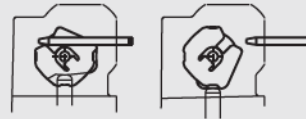


Parameter	Value		Unit
Connection	Screw terminal		
Version	M20 x 1.5		
Conductor cross-section	0.34 ... 1.5		mm <sup>2</sup>
Degree of protection according to IEC 60529	IP 67		
Rated insulation voltage $U_i$	250		V AC/DC
Rated impulse withstand voltage $U_{imp}$	2.5		kV
Conventional thermal current $I_{th}$	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	

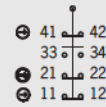
Switching functions NX

Actuator inserted

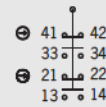
Actuator removed



NX.-2131...



NX.-3131...



NX.-2121...

