

Safety switch NM..WO with domed plunger



Approach direction



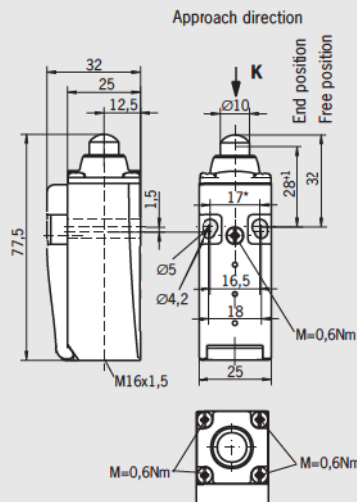
Vertical

Switching elements

- ▶ **ES01** Slow-action switching element
1 NC ⊖
- ▶ **ES11** Slow-action switching element
1 NC ⊖ + 1 NO
- ▶ **ES02** Slow-action switching element
2 NC ⊖
- ▶ **ES12** Slow-action switching element
2 NC ⊖ + 1 NO
- ▶ **ES03** Slow-action switching element
3 NC ⊖

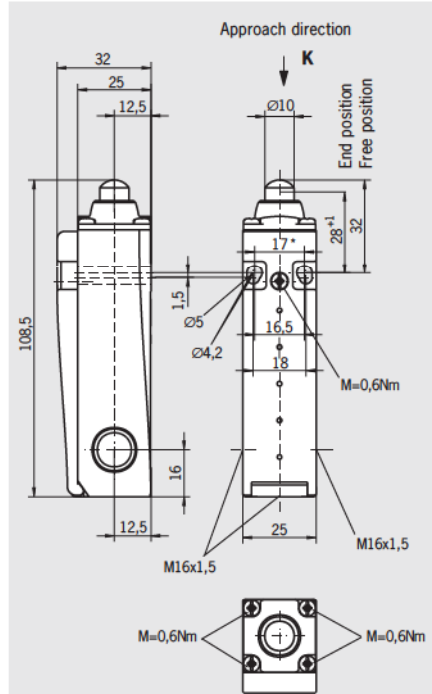
Cable entry M16 x 1.5 Short housing

Dimension drawing



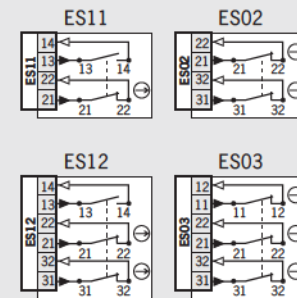
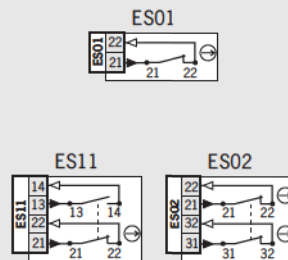
For cable glands see page 89

Cable entry M16 x 1.5 Long housing



For cable glands see page 89

Wiring diagrams Switch not actuated



Ordering table

Series	Actuator	Connection	Housing	Switching element	Order No. / Item
NM	WO Domed plunger	Cable entry 1 x M16 x 1.5	Short 	01 1 NC ⊖	084 495 NMO1WOK-M
				11 1 NC ⊖ + 1 NO	095 375 NM11WOK-MC2069
				02 2 NC ⊖	095 374 NMO2WOK-MC2069
		Cable entry 3 x M16 x 1.5	Long 	11 1 NC ⊖ + 1 NO	084 496 NM11WOK-M
				02 2 NC ⊖	084 497 NMO2WOK-M
				12 2 NC ⊖ + 1 NO	084 498 NM12WOK-M
				03 3 NC ⊖	084 499 NMO3WOK-M

Safety switch NM...



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	Reinforced thermoplastic			
Mechanical life	WO/RB	KB/HB	AV/AL/AG/AK	
	30 x 10 ⁶	20 x 10 ⁶	> 4 x 10 ⁶	Operating cycles
Weight	approx. 0.1			kg
Actuator material	Plastic; hinged actuators steel (stainless)			
Approach speed, max.	60			m/min
Actuating force	15			N

Switching element



Parameter	Value				Unit
Switching principle	Slow-action switching element				
Switching elements with 1 switching element	ES01 1 NC ⊖				
Switching elements with 2 switching elements	ES11 1 NC ⊖ + 1 NO	ES02 2 NC ⊖	ES12 2 NC ⊖ + 1 NO	ES03 3 NC ⊖	
Switching current, min., at DC 24 V	1				mA
Switching voltage, min.	12				V
Contact material	Silver alloy, gold flashed				

Connection, cable entry M16 x 1.5



Parameter	Value		Unit
Ambient temperature	- 20 ... + 80		°C
Connection	Screw terminal		
Version	M16 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	

Connection, plug connector SM 4 (M12)



Parameter	Value		Unit
Ambient temperature	- 20 ... + 60		°C
Connection	Plug connector		
Version	M12 (4-pin)		
Degree of protection according to IEC 60529	IP 67 ¹⁾		
Rated insulation voltage U _i	250		V AC/DC
Rated impulse withstand voltage U _{imp}	2.3		kV
Conventional thermal current I _{th}	1.5		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	

1) Screwed tight with the related plug connector (see page 85)