

# Emergency Stop Switch

Complete Set

## SEM20N0102

Part Number



- M12 connection
- Simple installation on profiles and walls
- Slender housing
- Unlocking by turning left or right

### Technical Data

#### Electrical Data

Temperature Range	-25...70 °C
Storage temperature	-25...85 °C
Service Life (nominal load)	50000 Switching Cycles
Protection Class	II

#### Mechanical Data

Housing Material	Plastic
Service Life	50000 Activations
Bounce time	< 10 ms
Degree of Protection	IP65
Installation Type	Setting up
Unlocking	turning
Connection	M12 × 1; 4-pin

#### Safety-relevant Data

B10d Switching Cycles	250 000
Number of positively driven contacts	2

#### Function

Switching position indicator	yes
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Connection Diagram No.

**P04**

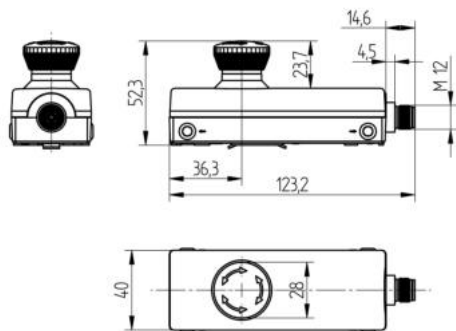
Suitable Connection Equipment No.

**2**

### Complementary Products

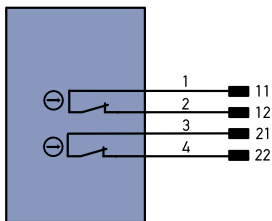
Safety Relay SR4B3B01S, SR4D3B01S

Software



All dimensions in mm (1 mm = 0.03937 Inch)

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#### Legend

+	Supply Voltage +	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ä (TTL)
-	Supply Voltage 0 V	nc	not connected	ENB5422	Encoder B/B̄ (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENa	Encoder A
A	Switching Output (NO)	Ū	Test Input inverted	ENb	Encoder B
Ä	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
Ū	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	O-	Ground for the Analog Output	SY In	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
Z	Time Delay (activation)	AWV	Valve Output	OLT	Brightness output
S	Shielding	a	Valve Control Output +	M	Maintenance
RxD	Interface Receive Path	b	Valve Control Output 0 V	rsv	reserved
TxD	Interface Send Path	SY	Synchronization	Wire Colors according to DIN IEC 757	
RDY	Ready	SY-	Ground for the Synchronization	BK	Black
GND	Ground	E+	Receiver-Line	BN	Brown
CL	Clock	S+	Emitter-Line	RD	Red
E/A	Output/Input programmable	±	Grounding	OG	Orange
IO-Link	IO-Link	SnR	Switching Distance Reduction	YE	Yellow
PoE	Power over Ethernet	Rx+/-	Ethernet Receive Path	GN	Green
IN	Safety Input	Tx+/-	Ethernet Send Path	BU	Blue
OSSD	Safety Output	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
Signal	Signal Output	La	Emitted Light disengageable	GY	Grey
BL_D+/-	Ethernet Gigabit bidirect. data line (A-D)	Mag	Magnet activation	WH	White
EN05422	Encoder 0-pulse 0-0̄ (TTL)	RES	Input confirmation	PK	Pink
		EDM	Contacting Monitoring	GNYE	Green/Yellow

