

# ER12-SB3C4S01

ER12

**SAFETY COMMAND DEVICES** 





# Ordering information

Туре	part no.
ER12-SB3C4S01	6034585

Other models and accessories → www.sick.com/ER12



#### Detailed technical data

#### **Features**

N/O contacts	1
Reset pushbutton (illuminable)	✓
Actuation directions	1
Suitable for muting applications (with UE403)	✓
Dimensions (W x H x D)	40 mm x 123 mm x 36 mm
Items supplied	Including retaining clip and "RESET" cover

# Safety-related parameters

<b>B<sub>10d</sub> parameter</b> 1 x 10 <sup>6</sup> switching cycles	
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#### **Functions**

Safe series connection None, only individual wiring (with diagnostics)	
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#### Interfaces

Connection type	Plug connector, M12, 4-pin
Coupling nut material	PBT

# Electronics - Operating data

Protection class	III (EN 61140)
Switching principle	Slow action switching element
N/O contacts	1
Usage category	DC-13 (EN 60947-5-1)
Rated operating current (voltage)	2 A (24 V DC)
Contact material	AgNi, 5 μm gold plated
Electrical life	
Reset pushbutton	1 x 10 <sup>6</sup> switching cycles

# Electronics - Illumination

Supply voltage $V_s$	30 V AC/DC
Power consumption	14 mA (24 V DC)

#### Mechanics

Dimensions	40 mm x 123 mm x 36 mm
Weight	106 g
Housing material	PBT
Mechanical life	
Reset pushbuttor	1 x 10 <sup>6</sup> switching cycles

#### Ambient data

Enclosure rating	IP65 (EN 60529)
Ambient operating temperature	-25 °C +70 °C
Storage temperature	-25 °C +80 °C

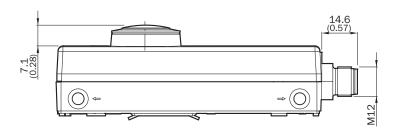
#### Certificates

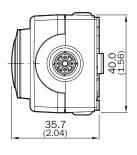
EU declaration of conformity	1
UK declaration of conformity	<b>√</b>
Moroccan declaration of conformity	<b>√</b>
China RoHS	<b>√</b>
cULus certificate	<b>√</b>
ULus approval	<b>✓</b>

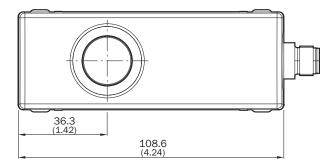
# Classifications

ECLASS 5.0	27379090
ECLASS 5.1.4	27371246
ECLASS 6.0	27371246
ECLASS 6.2	27371246
ECLASS 7.0	27371246
ECLASS 8.0	27371246
ECLASS 8.1	27371246
ECLASS 9.0	27371246
ECLASS 10.0	27371246
ECLASS 11.0	27371246
ECLASS 12.0	27371246
ETIM 5.0	EC000029
ETIM 6.0	EC000029
ETIM 7.0	EC000029
ETIM 8.0	EC000029
UNSPSC 16.0901	39122216

# **Dimensional drawing**







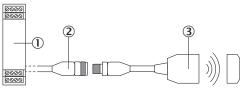
Dimensions in mm (inch)

#### **Pinouts**



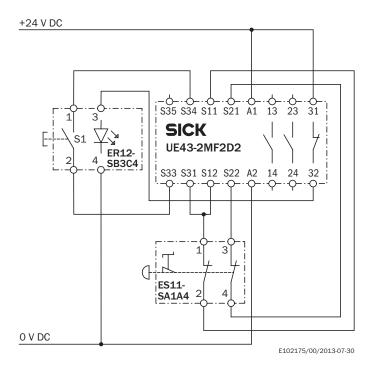
1	N/O contact
4	Ny O contact
2	LED+
3	LED-

# Connection single sensor

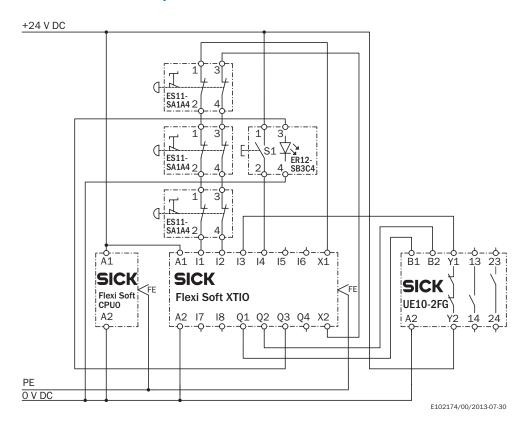


- ① Safe evaluation unit
- ② connecting cable with M12 female connector, 4-pin and flying leads (e.g. YF2A14-xxxVB3XLEAX)
- ③ ER12-SB3C4 reset pushbutton

#### Connection diagram ER12 reset pushbutton and ES11 emergency stop pushbutton to UE43 safety relay



Connection diagram ER12 reset pushbutton and series connection of three ES11 emergency stop pushbutton to a Flexi Soft safety controller



# Recommended accessories

Other models and accessories → www.sick.com/ER12

	Brief description	Туре	part no.
connectors and cables			
	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A14-050VB3XLEAX	2096235
<b>P</b> (0)	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 4-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-100VB3XLEAX	2096236
Q.	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A14-150VB3XLEAX	2096237
	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A14-200VB3XLEAX	2096238
E 80	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 4-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-020VB3M2A14	2096599
E 80	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Male connector, M12, 4-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A14-050VB3M2A14	2096600
100 PG	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Male connector, M12, 4-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A14-100VB3M2A14	2096601

# SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

