



# ER12-SB3C4

ER12

SAFETY COMMAND DEVICES

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
ER12-SB3C4	6051330

Other models and accessories → [www.sick.com/ER12](http://www.sick.com/ER12)



## Detailed technical data

### Features

<b>N/O contacts</b>	1
<b>Reset pushbutton (illuminable)</b>	✓
<b>Actuation directions</b>	1
<b>Dimensions (W x H x D)</b>	40 mm x 123 mm x 36 mm
<b>Items supplied</b>	Including retaining clip and "RESET" cover

### Safety-related parameters

<b>B<sub>10d</sub> parameter</b>	1 x 10 <sup>6</sup> switching cycles
----------------------------------	--------------------------------------

### Functions

<b>Safe series connection</b>	None, only individual wiring (with diagnostics)
-------------------------------	---

### Interfaces

<b>Connection type</b>	Plug connector, M12, 4-pin
Coupling nut material	PBT

### Electronics - Operating data

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

### Electronics - Illumination

<b>Supply voltage V<sub>s</sub></b>	30 V AC/DC
-------------------------------------	------------

<b>Power consumption</b>	14 mA (24 V DC)
--------------------------	-----------------

## Mechanics

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

## Ambient data

<b>Enclosure rating</b>	IP65 (EN 60529)
<b>Ambient operating temperature</b>	-25 °C ... +70 °C
<b>Storage temperature</b>	-25 °C ... +80 °C

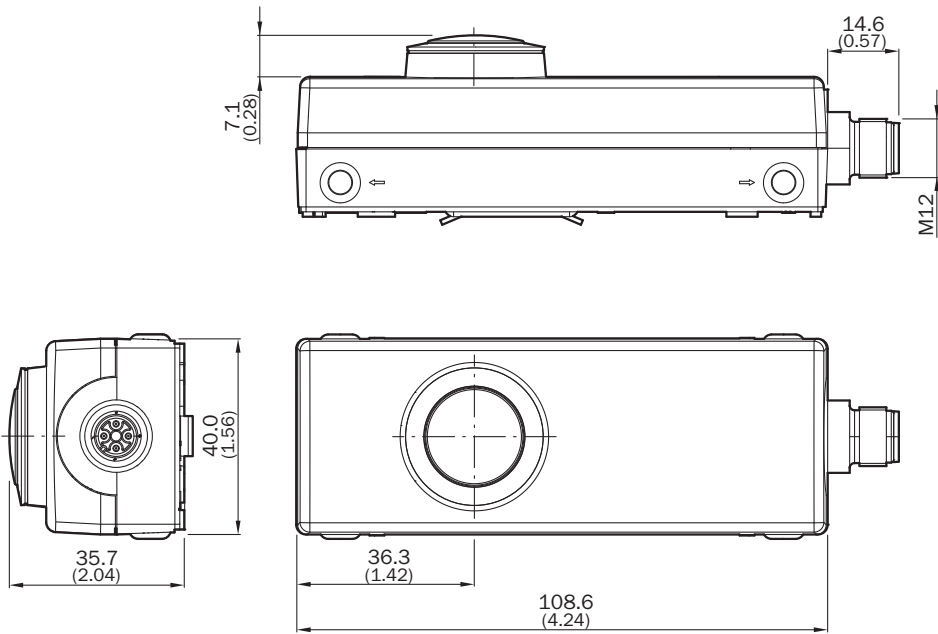
## Certificates

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

## Classifications

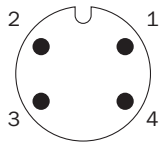
<b>ECLASS 5.0</b>	27379090
<b>ECLASS 5.1.4</b>	27371246
<b>ECLASS 6.0</b>	27371246
<b>ECLASS 6.2</b>	27371246
<b>ECLASS 7.0</b>	27371246
<b>ECLASS 8.0</b>	27371246
<b>ECLASS 8.1</b>	27371246
<b>ECLASS 9.0</b>	27371246
<b>ECLASS 10.0</b>	27371246
<b>ECLASS 11.0</b>	27371246
<b>ECLASS 12.0</b>	27371246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

Dimensional drawing



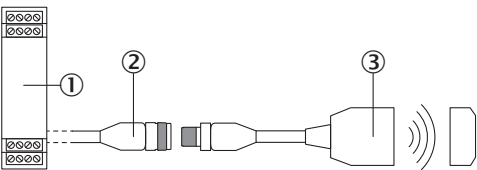
Dimensions in mm (inch)

Pinouts



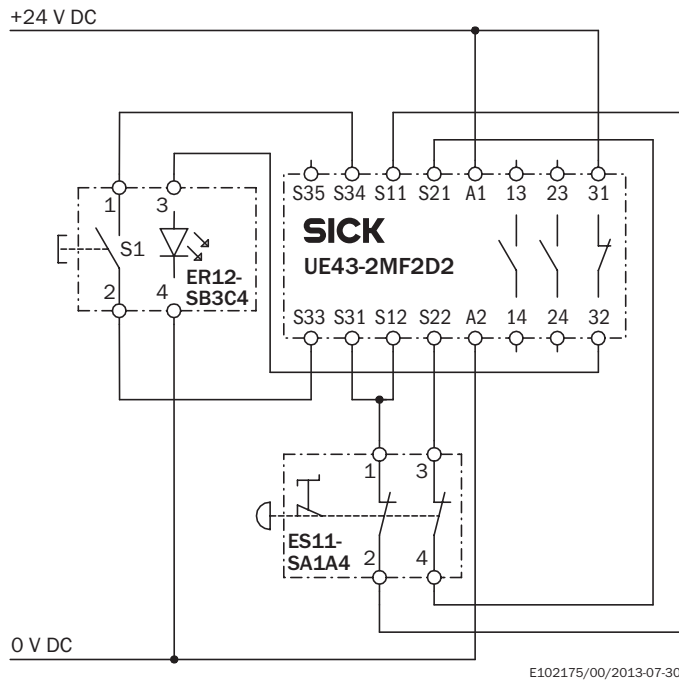
1	
2	N/O contact
3	LED +
4	LED -

Connection single sensor

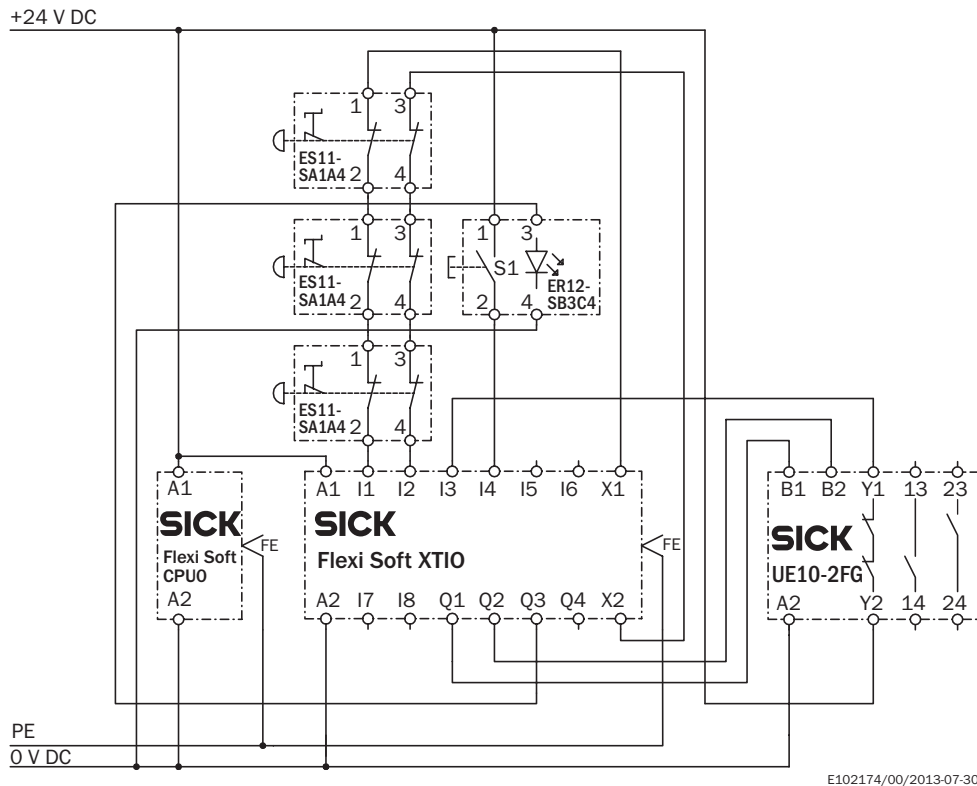


- ① Safe evaluation unit
- ② connecting cable with M12 female connector, 4-pin and flying leads (e.g. YF2A14-xxxVB3XLEAX)
- ③ ER12-SB3C4 reset pushbutton

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](http://www.sick.com/ER12)

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Sensor/actuator cable</li> <li>• <b>Cable:</b> 5 m, 4-wire, PVC</li> <li>• <b>Description:</b> Sensor/actuator cable, unshielded</li> <li>• <b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-050VB3XLEAX	2096235
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Sensor/actuator cable</li> <li>• <b>Cable:</b> 10 m, 4-wire, PVC</li> <li>• <b>Description:</b> Sensor/actuator cable, unshielded</li> <li>• <b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-100VB3XLEAX	2096236
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Sensor/actuator cable</li> <li>• <b>Cable:</b> 15 m, 4-wire, PVC</li> <li>• <b>Description:</b> Sensor/actuator cable, unshielded</li> <li>• <b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-150VB3XLEAX	2096237
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Sensor/actuator cable</li> <li>• <b>Cable:</b> 20 m, 4-wire, PVC</li> <li>• <b>Description:</b> Sensor/actuator cable, unshielded</li> <li>• <b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-200VB3XLEAX	2096238

## 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](http://www.sick.com)