ER12-SB3C5

ER12

SAFETY COMMAND DEVICES
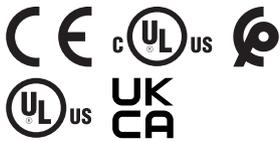
SICK
Sensor Intelligence.

Ordering information

Type	part no.
ER12-SB3C5	6045316

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 DMM4)	✓
Suitable for reset/override applications (with deTec4)	✓
Dimensions (W x H x D)	40 mm x 123 mm x 36 mm
Items supplied	Including retaining clip, "RESET" cover and "RESET/OVERRIDE" cover

Safety-related parameters

B_{10d} parameter	1×10^6 switching cycles

Functions

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

Interfaces

Connection type	Plug connector, M12, 5-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	1×10^6 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 pushbutton	1×10^6 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	✓
UK declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
ULus approval	✓

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

14.6
(0.57)

7.1
(0.28)

M12

40.0
(1.56)

35.7
(2.04)

36.3
(1.42)

108.6
(4.24)
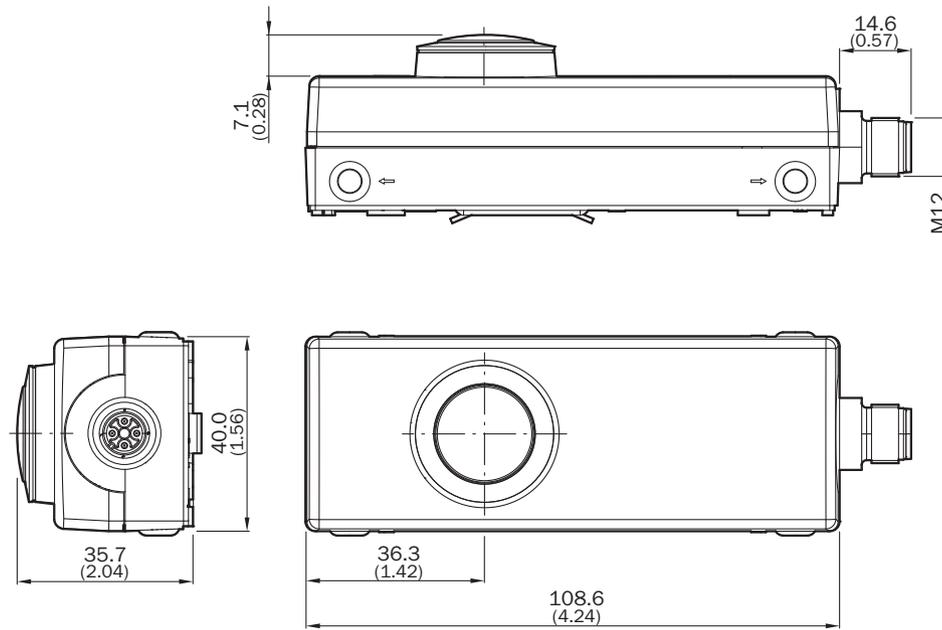
Dimensions in mm (inch)

Pinouts
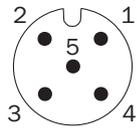
1	N/O contact
4	
2	Not connected
3	LED -
5	LED +

Connection single sensor
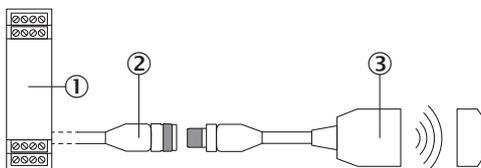
① Safe evaluation unit
② connecting cable with M12 female connector, 5-pin and flying leads (e.g., YF2A15-xxxVB5XLEAX)
③ ER12-SB3C5 reset pushbutton

Recommended accessories

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

connectors and cables

	Brief description	Type	part no.
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 2 m, 5-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Uncontaminated zones, Zones with chemicals	YF2A15-020VB5XLEAX	2096239
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 5 m, 5-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Uncontaminated zones, Zones with chemicals	YF2A15-050VB5XLEAX	2096240
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 10 m, 5-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Uncontaminated zones, Zones with chemicals	YF2A15-100VB5XLEAX	2096241
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Male connector, M12, 5-pin, straight, A-coded • **Signal type:** Sensor/actuator cable • **Cable:** 2 m, 5-wire, PUR, halogen-free • **Description:** Sensor/actuator cable, unshielded • **Application:** Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YF2A15-020UB5M2A15	2096009
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Male connector, M12, 5-pin, straight, A-coded • **Signal type:** Sensor/actuator cable • **Cable:** 5 m, 5-wire, PUR, halogen-free • **Description:** Sensor/actuator cable, unshielded • **Application:** Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YF2A15-050UB5M2A15	2096010
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Male connector, M12, 5-pin, straight, A-coded • **Signal type:** Sensor/actuator cable • **Cable:** 10 m, 5-wire, PUR, halogen-free • **Description:** Sensor/actuator cable, unshielded • **Application:** Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YF2A15-100UB5M2A15	2096011
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 0.6 m, 5-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Uncontaminated zones, Zones with chemicals	YF2A15-C60VB5XLEAX	2145570
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 3 m, 5-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Uncontaminated zones, Zones with chemicals	YF2A15-030VB5XLEAX	2145572

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."

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