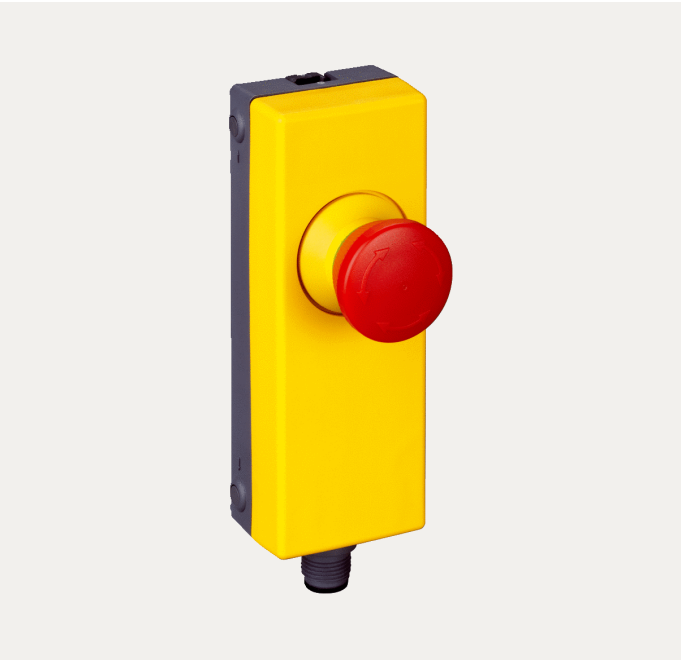




DATA SHEET

ES11-SA1A4

ES11
Safety command devices



SAFETY COMMAND DEVICES

ES11-SA1A4

ORDERING INFORMATION

Type	part no.
ES11-SA1A4	6051327

Further device versions and accessories at www.sick.com/ES11



DETAILED TECHNICAL DATA

FEATURES

Positive action N/C contacts	2
N/O contacts	0
Actuation directions	1
Dimensions (W x H x D)	40 mm x 123 mm x 52 mm
Items supplied	Including retaining clip

SAFETY-RELATED PARAMETERS

B _{10d} parameter	2.5 x 10 ⁵ switching cycles
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FUNCTIONS

Safe series connection	With Flexi Loop (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 50178)
Switching principle	Slow action switching element
Positive action N/C contacts	2
N/O contacts	0
Usage category	DC-13 (EN 60947-5-1)
Rated operating current (voltage)	2 A (24 V DC)

Contact material	AgNi
Electrical life	
Emergency stop pushbuttons	5 x 10 ⁴ switching cycles

MECHANICS

Dimensions	40 mm x 123 mm x 52 mm
Weight	112 g
Housing material	PBT
Mechanical life	
Emergency stop pushbuttons	5 x 10 ⁴ switching cycles

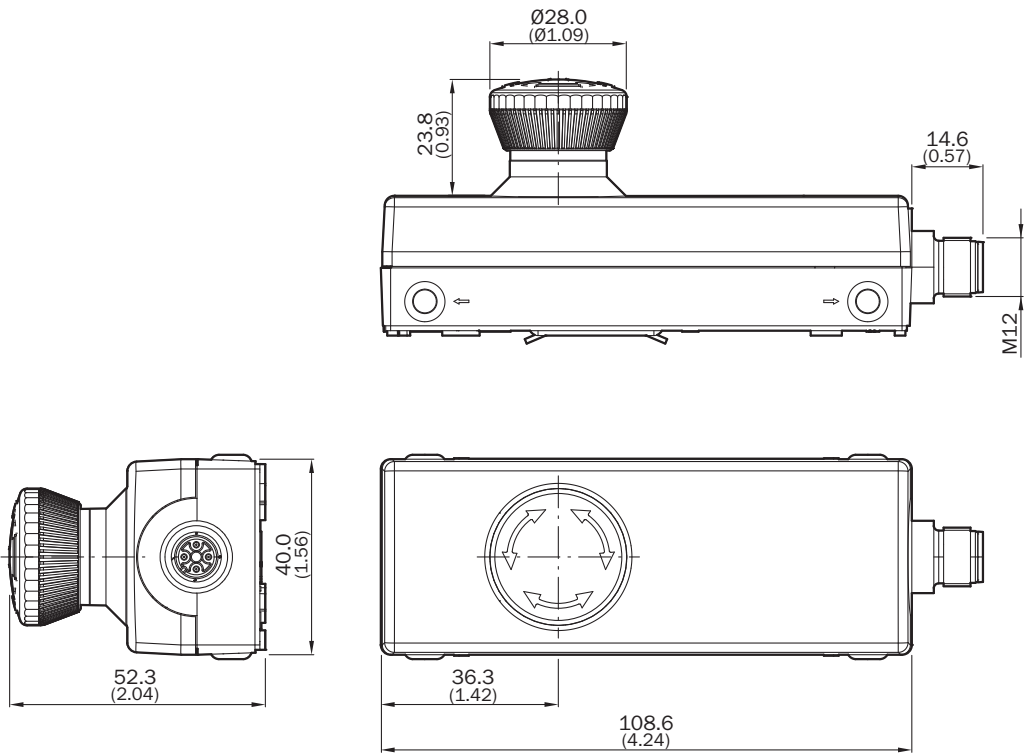
AMBIENT DATA

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

CERTIFICATES

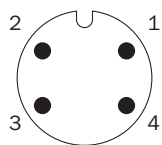
EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓
ULus approval	✓
Third party certificate	✓

DIMENSIONAL DRAWING



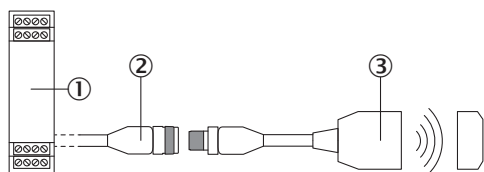
Dimensions in mm (inch)

PINOUTS



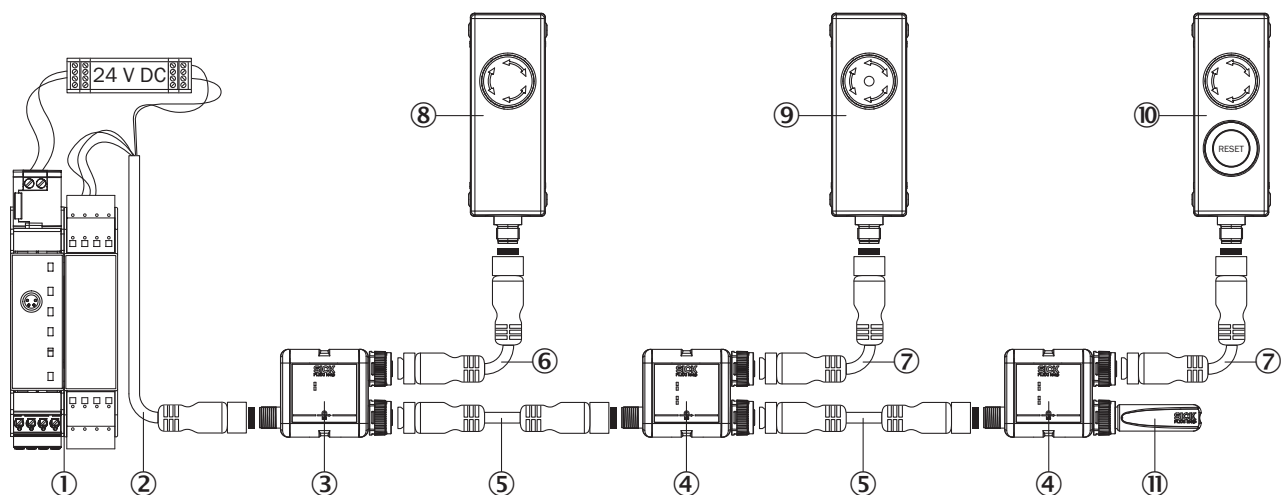
1	N/C contact
2	
3	N/C contact
4	

CONNECTION SINGLE SENSOR



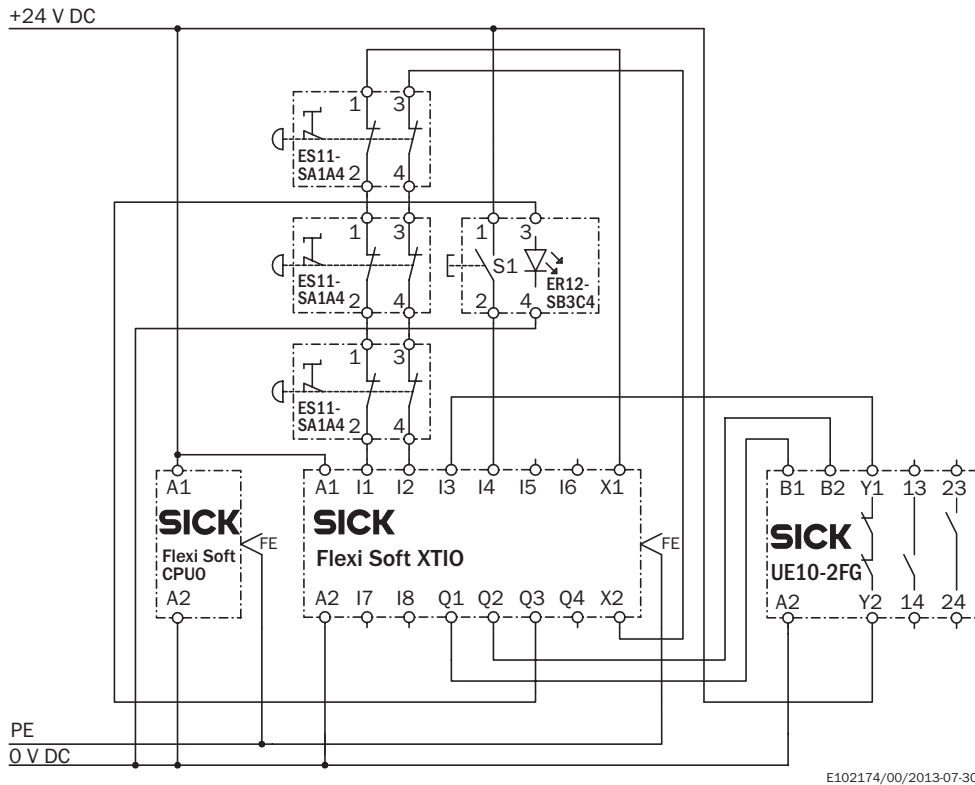
- ① Safe evaluation unit
- ② connecting cable with M12 female connector, 4-pin and flying leads (e.g. YF2A14-xxxVB3XLEAX)
- ③ ES11-SA1A4 emergency stop pushbutton

SERIES CONNECTION WITH FLEXI LOOP (WITH DIAGNOSTICS)

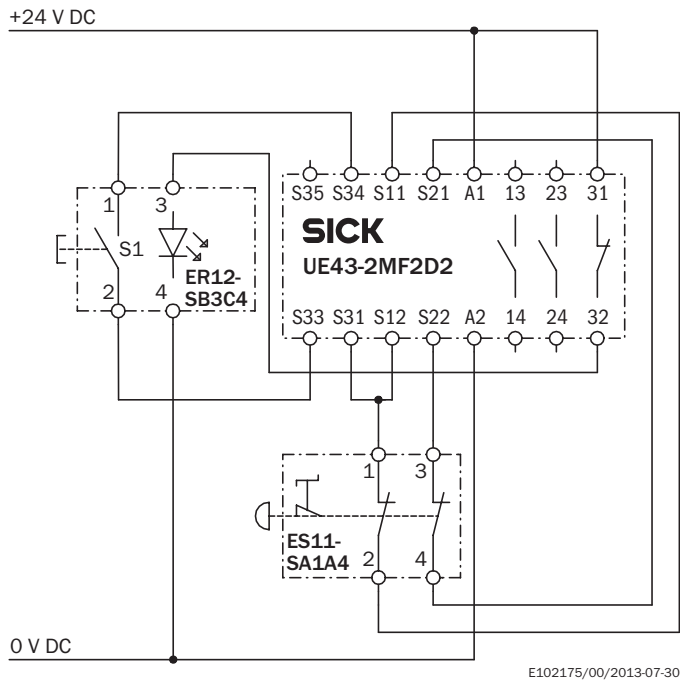


- ① Flexi Soft safety controller
- ② connecting cable with M12 female connector, 5-pin and flying leads (e.g., YF2A15-xxxVB5XLEAX)
- ③ FLN-EMSS0000105 Flexi Loop node
- ④ FLN-EMSS1100108 Flexi Loop node
- ⑤ Connection cable with 5-pin, M12 male connector and 5-pin, M12 female connector (e.g., YF2A15-xxxUB5M2A15)
- ⑥ Connection cable with 4-pin, M12 male connector and 4-pin, M12 female connector (e.g., YF2A14-xxxVB3M2A14)
- ⑦ Connection cable with 8-pin, M12 male connector and 8-pin, M12 female connector (e.g., YF2A18-xxxUA5M2A18)
- ⑧ ES11-SA1A4 emergency stop pushbutton
- ⑨ ES11-SA2B8 emergency stop pushbutton
- ⑩ ES11-SC4D8 emergency stop pushbutton
- ⑪ FLT-TERM00001 Flexi Loop terminating element

CONNECTION DIAGRAM ER12 RESET PUSHBUTTON AND SERIES CONNECTION OF THREE ES11 EMERGENCY STOP PUSHBUTTON TO A FLEXI SOFT SAFETY CONTROLLER



CONNECTION DIAGRAM ER12 RESET PUSHBUTTON AND ES11 EMERGENCY STOP PUSHBUTTON TO UE43 SAFETY RELAY



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6051327



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

SICK
Sensor Intelligence