



DATA SHEET

ES21-SB13J1

ES21
Safety command devices



SAFETY COMMAND DEVICES

ES21-SB13J1

ORDERING INFORMATION

Type	part no.
ES21-SB13J1	6045315

Further device versions and accessories at www.sick.com/ES21



DETAILED TECHNICAL DATA

FEATURES

Positive action N/C contacts	2
N/O contacts	1
Actuation directions	1
Contact module for panel mount version	✓
Emergency stop pushbutton (illuminable)	✓
Obstruction protection	✓
Release type	Rotary release
Labeling EMERGENCY STOP	✓

SAFETY-RELATED PARAMETERS

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

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

Connection type	Terminal strip
Conductor cross section	≤ 2.5 mm ²
Contact	Screw connection

ELECTRONICS - OPERATING DATA

Protection class	II (EN 50178)
Switching principle	Slow action switching element
Positive action N/C contacts	2

N/O contacts	1
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	3 A (250 V AC) 2 A (24 V DC)
Rated insulation voltage U_i	600 V
Switching voltage	≥ 5 V DC
Switching current	≥ 1 mA

ELECTRONICS - ILLUMINATION

Supply voltage V_s	24 V DC (12 V DC ... 30 V DC)
Power consumption	8 mA ... 44 mA
Life time	70.000 h ¹⁾ 100.000 h ²⁾

¹⁾ At 55 °C, 20 mA.

²⁾ At 25 °C, 20 mA.

MECHANICS

Weight	150 g
Housing material	Plastic
Mounting version	Panel mount version

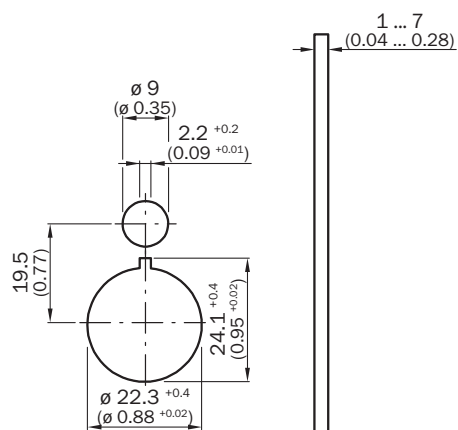
AMBIENT DATA

Enclosure rating	IP54 (IEC 60529)
Ambient operating temperature	-25 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C

CERTIFICATES

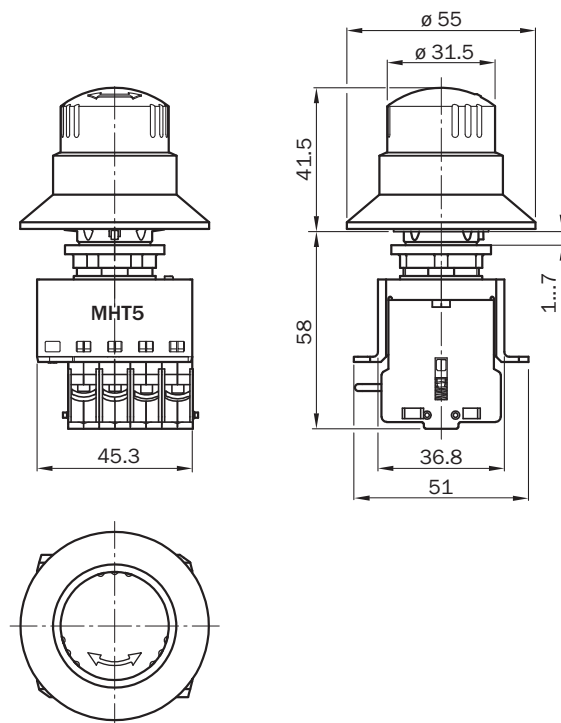
EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓
Third party certificate	✓

DIMENSIONAL DRAWING MOUNTING HOLES



Dimensions in mm (inch)

DIMENSIONAL DRAWING PANEL MOUNT VERSION



Dimensions in mm (inch)

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/6045315



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