



SICK Sensor Intelligence.

**SAFETY COMMAND DEVICES** 

### ES21-SA13H1 | ES21

SAFETY COMMAND DEVICES



#### Ordering information

Туре	Part no.
ES21-SA13H1	6034584

Product consists of UL certified components (ES21-XS001, ES21-XC050, ES21-CS0010, ES21-CS0100, ES21-CS1000, ES21-AT1120). See UL certificate number: E198242

Other models and accessories -> www.sick.com/ES21

# **€€ ∰ ⊞**

#### Detailed technical data

#### Features

Number of positive action N/C contacts	2
Number of N/O contacts	1
Actuation directions	1
Emergency stop pushbutton (illuminable)	✓
Obstruction protection	✓
Release type	Rotary release
Labeling "EMERGENCY STOP"	✓
Safety-related parameters	
B <sub>10d</sub> parameter	2.5 x 10 <sup>5</sup> switching cycles
Functions	
Safe series connection	None, only individual wiring (with diagnostics)
Interfaces	
Connection type	Cable gland, 2 x M20
Conductor cross section	≤ 2.5 mm²
Contact	Screw connection
Electrical data	
Operating data	
Protection class	II (EN 50178)

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Switching principle	Slow action switching element
Number of positive action N/C contacts	2
Number of 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 <sub>i</sub>	600 V

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Switching voltage	≥ 5 V DC
Switching current	≥ 1 mA
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 <sup>1)</sup> 100.000 h <sup>2)</sup>

<sup>1)</sup> At 55 °C, 20 mA. <sup>2)</sup> At 25 °C, 20 mA.

#### Mechanical data

Weight	230 g
Housing material	Plastic
Mounting version	Surface mount version

#### Ambient data

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

#### Classifications

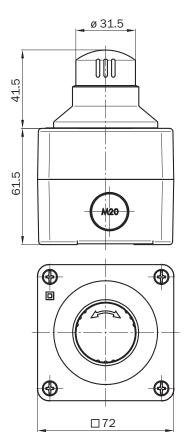
eCl@ss 5.0	27371228
eCl@ss 5.1.4	27371228
eCl@ss 6.0	27371244
eCl@ss 6.2	27371244
eCl@ss 7.0	27371244
eCl@ss 8.0	27371244
eCl@ss 8.1	27371244
eCl@ss 9.0	27371244
eCl@ss 10.0	27371244
eCl@ss 11.0	27371244
eCl@ss 12.0	27371244
ETIM 5.0	EC002034
ETIM 6.0	EC002034
ETIM 7.0	EC002034
ETIM 8.0	EC002034
UNSPSC 16.0901	39121545

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#### Dimensional drawing (Dimensions in mm (inch))

Surface mount version



# 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



Online data sheet

