# ES21-SB13J1

ES21

**SAFETY COMMAND DEVICES**

## Ordering information

| Type | Part no. |
|---|---|
| ES21-SB13J1 | 6045315 |

Product consists of UL certified components (ES21-XC050, ES21-CS0001, 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 |
| 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 |

### Functions

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

### Interfaces

| | |
|---|---|
| Connection type | Terminal strip |
| Conductor cross section | ≤ 2.5 mm² |
| Contact | Screw connection |

### Electrical data

#### Operating data

| | |
|---|---|
| Protection class | II (EN 50178) |
| 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 $U_i$ | 600 V |

| 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 [1]<br>100.000 h [2] |

[1] At 55 °C, 20 mA.
[2] At 25 °C, 20 mA.

### Mechanical data

| 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 |

### Classifications

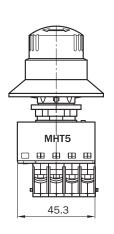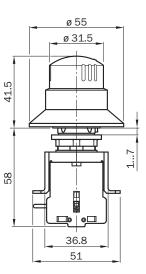| eCl@ss 5.0 | 27371228 |
|---|---|
| eCl@ss 5.1.4 | 27371228 |
| eCl@ss 6.0 | 27371244 |
| eCl@ss 6.2 | 27371244 |
| eCl@ss 7.0 | 27371244 |
| eCl@ss 8.0 | 27371244 |
| eCl@ss 8.1 | 27371244 |
| eCl@ss 9.0 | 27371244 |
| eCl@ss 10.0 | 27371244 |
| eCl@ss 11.0 | 27371244 |
| eCl@ss 12.0 | 27371244 |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

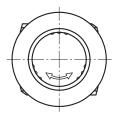## Dimensional drawing (Dimensions in mm (inch))

Mounting holes



Panel mount version

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