



PRODUCT OVERVIEW

# ES21

Safety switches

# SICK

Sensor Intelligence



## SAFETY COMMAND DEVICES

# ES21

### Emergency stop pushbutton for fast and reliable stopping of the machine

ES21 emergency stop pushbuttons are a must for automated machines and systems. They provide a means for a person to stop a machine or system in the event of an emergency. Depending on the variant, the emergency stop pushbuttons are either integrated into a machine operator panel or mounted directly on the machine.

## ES21 AT A GLANCE

### BENEFITS

- A wide range of variants for custom-fit integration into your machine
- High level of safety thanks to self-monitoring: It switches off the machine in the event of faulty installation or mechanical damage
- Quick and user-friendly reading of the device status
- Reduction of unplanned machine stops, for instance in busy work areas
- Can be installed quickly and cost-effectively, at the same time reducing sources of error during wiring
- Simple, safe series connection with Flexi Loop

### FEATURES

- Optionally available as a built-in version or as a surface-mounted version with housing
- Built-in version with self-monitoring emergency stop contacts
- Status display with colored mark or LED ring illumination
- Variants with protective collar
- Variants with M12 male connector

## TECHNICAL DATA OVERVIEW

|                                         |                                                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety task                             | Emergency stop                                                                                                                                                        |
| Switch type                             | Emergency stop pushbutton                                                                                                                                             |
| Functional principle                    | Electro-mechanical                                                                                                                                                    |
| Type of output                          | Electro-mechanical contacts                                                                                                                                           |
| Positive action N/C contacts            | 1 / 2 / 3                                                                                                                                                             |
| Normally open contact                   | 0 / 1                                                                                                                                                                 |
| Switching principle                     | Slow action switching element                                                                                                                                         |
| Connection type                         | Cable gland, 2 x M20<br>Terminal strip<br>Male connector, M12, 5-pin, A-coded<br>Cable with male connector M12, 4-pin, A-coded<br>M12 male connector, 4-pin, A-coding |
| LED                                     | -                                                                                                                                                                     |
| Emergency stop pushbutton (illuminable) | ✓ / -                                                                                                                                                                 |
| Protective collar                       | ✓ / -                                                                                                                                                                 |
| Obstruction protection                  | ✓ / -                                                                                                                                                                 |
| Mounting version                        | Panel mount version<br>Surface mount version                                                                                                                          |
| Safe series connection                  | With Flexi Loop (with diagnostics)<br>None, only individual wiring (with diagnostics)                                                                                 |
| Housing material                        | Plastic                                                                                                                                                               |
| Enclosure rating                        | IP54<br>IP65<br>IP67                                                                                                                                                  |

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.

[www.sick.com/ES21](http://www.sick.com/ES21)



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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 partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the 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.

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