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Product data sheet



ES21-SA10F1

ES21

SAFETY COMMAND DEVICES

SICK
Sensor Intelligence.

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ES21-SA10F1 | ES21

SAFETY COMMAND DEVICES



Ordering information

Type	Part no.
ES21-SA10F1	6036148

Product consists of UL certified components (ES21-XS001, ES21-XC030, 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
Obstruction protection	✓
Release type	Rotary release

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	Cable gland, 2 x M20
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

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Mechanical data

Weight	220 g
Housing material	Plastic
Mounting version	Surface mount version

Ambient data

Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	–25 °C ... +60 °C
Storage temperature	–25 °C ... +85 °C

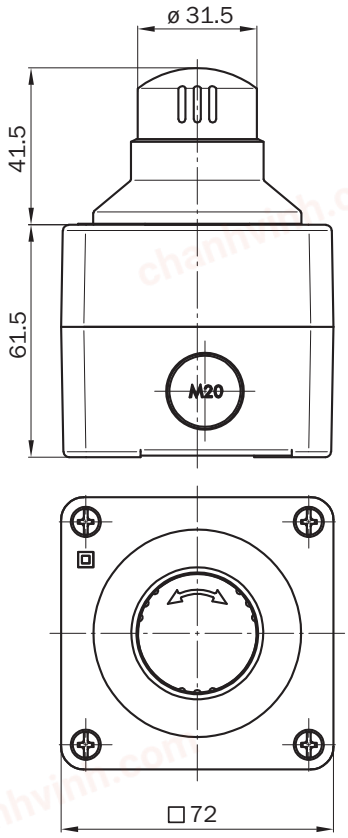
Classifications

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



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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

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