

i10-RA213

**ELECTRO-MECHANICAL SAFETY SWITCHES** 





# Ordering information

Туре	part no.
i10-RA213	6025085

Other models and accessories → www.sick.com/i10R



### Detailed technical data

#### **Features**

Designation N/O contests	
Positive action N/C contacts	2
N/O contacts	1
Actuation frequency	≤ 6,000 /h
Actuation torque	≥ 0.14 Nm
Actuation directions	4
Approach speed	0.1 m/min 15 m/min
Positive break angle	47°

# Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>6</sup> switching cycles (with small load)
Туре	Type 1 (EN ISO 14119)
Actuator coding level	Uncoded (EN ISO 14119)
Safe state in the event of a fault	The switch has no internal fault detection and is unable to assume a safe state in the event of a fault. Fault detection is performed by the connected safety-related logic unit.

#### **Functions**

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

Connection type		Cable gland, 1 x M20
	Conductor cross section	≤ 2.5 mm²

### **Electronics**

Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 3 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	250 V
Rated impulse withstand voltage U <sub>imp</sub>	2,500 V AC

Short-circuit protection	F15
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	5 mA (5 V DC)

### Mechanics

Weight	0.11 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	10 x 10 <sup>6</sup> switching cycles

# Ambient data

Enclosure rating	IP66 (IEC 60529)
Ambient operating temperature	-25 °C +80 °C
Storage temperature	-25 °C +80 °C

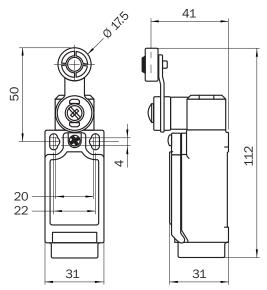
# Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
cULus certificate	✓
TÜV approval	✓
TÜV approval annex	✓

# Classifications

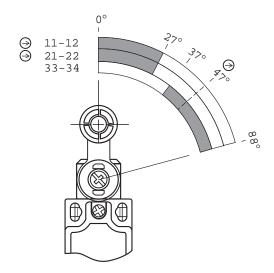
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ECLASS 5.1.4	27272601
ECLASS 6.0	27272601
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ECLASS 8.1	27272601
ECLASS 9.0	27272601
ECLASS 10.0	27272601
ECLASS 11.0	27272601
ECLASS 12.0	27272601
ETIM 5.0	EC001829
ETIM 6.0	EC001829
ETIM 7.0	EC001829
ETIM 8.0	EC001829
UNSPSC 16.0901	39122205

# **Dimensional drawing**



Dimensions in mm (inch)

# Actuator travel diagram



- Contacts open
- Contacts closed

# SICK AT A GLANCE

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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."

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