



SICK Sensor Intelligence.

**ELECTRO-MECHANICAL SAFETY SWITCHES** 



## Ordering information

Туре	Part no.
i16-SA203	6025063

The actuator has to be ordered separately. See "Accessories" for further details.

Other models and accessories → www.sick.com/i16S

actuator not supplied with delivery



#### Detailed technical data

#### Features

2	
0	
≤ 30 N	
≤ 7,200 /h	
3	
≤ 10 m/min	

#### Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>6</sup> switching cycles (with small load)
Туре	Type 2 (EN ISO 14119)
Actuator coding level	Low coding level (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)
Interfaces	
Connection two	Cable sland 2 x M20

Connection type		Cable gland, 3 x M20
Conduct	tor cross section	≤ 1.5 mm²

#### Electrical data

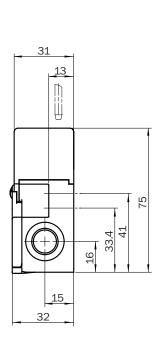
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	240 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V

## i16-SA203 | i16S

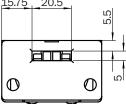
ELECTRO-MECHANICAL SAFETY SWITCHES

Switching voltage> 5 V DCSwitching current (switching voltage)> 5 m A (5 V DC)Mechanical data0.14 kgWeight0.14 kgHousing materialGlass-fiber reinforced polybutylene terephthalate (PBT)Mechanical life1 x 10 <sup>6</sup> switching cyclesAmbient dataP67 (IEC 60529)Ambient operating temperature-20 °C +80 °CStorage temperature-20 °C +80 °C	Short-circuit protection	T10/10A
Switching current (switching voitage)\$ 5 m (6 V DC)Mechanical data0.14 kgWeight0.14 kgHousing materialGlass-fiber reinforced polybutylene terephthalate (PBT)Mechanical life0.14 no switching cyclesAmbient dataFor (ICC 60529)Enclosure ratingP67 (ICC 60529)Ambient operating temperature-20 °C +80 °CStorage temperature-20 °C +80 °CStorage temperature20 °C +80 °CCless 5.02727202ecless 5.1.42727202ecless 6.02727202ecless 6.12727202ecless 6.12727202ecless 6.22727202ecless 6.32727202ecless 6.42727202ecless 6.12727202ecless 6.127272		
Mechanical data       Weight     0.41 kg       Housing material     Glass-fiber reinforced polybutylene terephthalate (PBT)       Mechanical life     1 x 10 <sup>8</sup> switching cycles       Ambient data     -       Enclosure rating     IP67 (IEC 60529)       Ambient operating temperature     -20 ° C +80 ° C       Storage temperature     -20 ° C +80 ° C       Classifications     -20 ° C +80 ° C       eCless 5.0     27272602       eCless 5.14     27272602       eCless 6.0     27272602       eCless 6.2     27272602       eCless 6.3     27272602       eCless 6.4     27272602       eCless 6.2     27272602       eCless 6.3     27272602       eCless 6.4     27272602       eCless 6.1     27272602       eCless 6.1     27272602       eCless 6.1     27272602       eCless 6.1     27272602       eCless 6.0     27272602       eCless 6.0     27272602       eCless 6.1     27272602       eCless 6.1     27272602       eC		
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Mechanical life1 x 10 <sup>6</sup> switching cyclesAmbient dataEnclosure ratingP67 (IEC 60529)Ambient operating temperature-20 ° C +80 ° Cstorage temperature-20 ° C +80 ° Cclossifications-20 ° C +80 ° Cecless 5.020 ° C +80 ° Cecless 5.1.42727602ecless 6.027272602ecless 6.227272602ecless 7.027272602ecless 8.127272602ecless 8.127272602ecless 8.127272602ecless 9.027272602ecless 1.027272602ecless 1.027272602e	Weight	0.14 kg
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### Dimensional drawing (Dimensions in mm (inch))

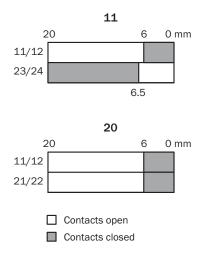




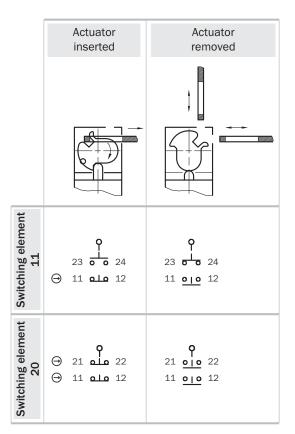


## Actuator travel diagram

Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)



## Switching elements



Switching element 11: 1 positive action N/C contact + 1 N/O contact

### Switching element 20:

2 positive action N/C contacts

# 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."

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