



SICK Sensor Intelligence.

ELECTRO-MECHANICAL SAFETY SWITCHES

i16-SA205 | i16S ELECTRO-MECHANICAL SAFETY SWITCHES



Ordering information

Туре	Part no.
i16-SA205	1064508

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

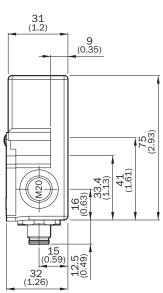
1 outui oo		
Number of positive acti	on N/C contacts	2
Number of N/O contact	ts	0
Retaining force		≤ 30 N
Actuation frequency		≤ 7,200 /h
Actuation directions		3
Approach speed		≤ 10 m/min
Safety-related para	meters	
B _{10d} parameter		2 x 10 ⁶ switching cycles (with small load)
Туре		Type 2 (EN ISO 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		With Flexi Loop (with diagnostics)
Interfaces		
Connection type		Plug connector, M12, 4-pin
	Coupling nut material	Nickel-plated brass
Electrical data		
Switching principle		Slow action switching element
Usage category		DC-13 (IEC 60947-5-1)
Rated operating curren	t (voltage)	2 A (24 V DC)
Rated insulation voltag	je U _i	32 V
Rated impulse withstar	nd voltage U _{imp}	1,500 V AC

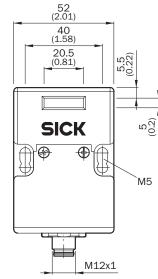
i16-SA205 | i16S

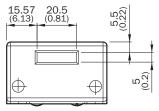
ELECTRO-MECHANICAL SAFETY SWITCHES

Short-circuit protection	2 A
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 V DC)
Mechanical data	
Weight	+ 0.14 kg
Housing material	Glass-fiber reinforced polybutylene terephthalate (PBT)
Mechanical life	1 x 10 ⁶ switching cycles
Ambient data	
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +80 °C
Storage temperature	-20 °C +80 °C
Classifications	
eCl@ss 5.0	27272602
eCl@ss 5.1.4	27272602
eCl@ss 6.0	27272602
eCl@ss 6.2	27272602
eCl@ss 7.0	27272602
eCl@ss 8.0	27272602
eCl@ss 8.1	27272602
eCl@ss 9.0	27272602
eCl@ss 10.0	27272602
eCl@ss 11.0	27272602
eCl@ss 12.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592
ETIM 7.0	EC002592
ETIM 8.0	EC002592
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))







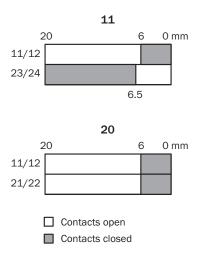
Pin assignment



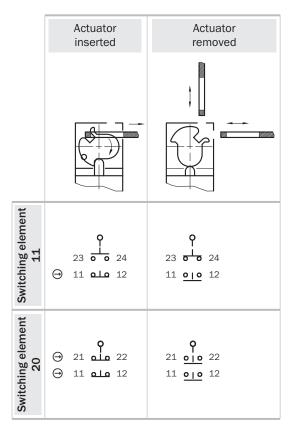
1	positive action N/C contacts 11/12
3	positive action N/C contacts 21/22

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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

