



## i110S

Rugged electro-mechanical safety switch with retaining force for doors

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Switch type</b>	Safety switches with separate actuator
<b>Positive action N/C contacts</b>	2 / 3 (depending on type)
<b>N/O contacts</b>	0 ... 2 (depending on type)
<b>Housing material</b>	Metal
<b>Enclosure rating</b>	IP67 (IEC 60529)
<b>Switching principle</b>	Slow action switching element
<b>Connection type</b>	Cable gland, 1 x M20 / plug connector, M12, 4-pin (depending on type)



### Product description

Safety switches with a separate actuator are made up of two parts: a safety switch that is mounted on the fixed part and an actuator that is mounted on the mobile part of the guard. When the guard is closed, the actuator is moved into the safety switch. This achieves the safe status and the safety-relevant contacts are closed. These devices are ideal for protecting sliding and rotating doors, as well as removable protective covers. The i110S safety switch with a separate actuator has a rugged housing that enables optimal protection against external influences, ensuring high machine reliability.

### At a glance

- Standardized metal housing
- Rigid or mobile actuators
- Available with M20 X 1.5 cable entry gland or Flexi Loop-compatible M12 plug connector (depending on variant)
- Slow-action switching elements with four contacts
- IP 67 enclosure rating

### Your benefits

- Standard device design provides quick and easy mounting
- Rugged metal housing provides increased machine reliability, even when the guard has a mechanical offset
- High availability and safety due to the cone shaped alignment aid
- Improved diagnostics due to additional signaling contacts
- Flexi Loop now enables a safe series connection with enhanced diagnostics capabilities and minimal wiring effort.

### Fields of application

- Safe monitoring of rotatable guards, such as swivel doors and gates
- Safe monitoring of laterally sliding guards, such as sliding doors and fences
- Safe monitoring of removable guards

## Ordering information

Other models and accessories → [www.sick.com/i110S](http://www.sick.com/i110S)

- **System part:** sensor
- **Housing material:** metal
- **Retaining force:** ≤ 12 N

Positive action N/C contacts	N/O contacts	Connection type Detail	Safe series connections	Type	Part no.
2	0	Plug connector, M12, 4-pin	With Flexi Loop (with diagnostics)	i110-SA225	1064509
	2	Cable gland, 1 x M20	None, only individual wiring (with diagnostics)	i110-SA223	6025074
3	1	Cable gland, 1 x M20		i110-SA313	6025073

## 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](http://www.sick.com)