



IN4000 Standard

Inductive safety switch for position monitoring

SICK
Sensor Intelligence.



Technical data overview

Sensor principle	Inductive
Safety level	PL e, SIL 3
Actuator coding level	Uncoded (EN ISO 14119)
Type of output	Semiconductor, pulsed
Number of safe outputs	1
Connection type	Plug connector, M12, 4-pin

Product description

The IN4000 Standard inductive safety switches are used for determining position and work on a non-contact basis. These safety switches are actuated through metal (e.g., ST37 steel) so that no separate actuator is required. It has a single-channel operating principle: a pulsed input signal is converted to a pulsed output signal and evaluated by the connected safety controller. The response time of the sensors is monitored spatially and chronologically, enabling better prevention against tampering and a high level of safety protection. Their non-contact operating principle enables simple adjustment and mounting as well as providing increased shock and vibration resistance.

At a glance

- One clocked safety output for direct connection of sensors to a safety controller
- IP67 or IP69K enclosure rating
- Response range up to 15 mm
- LED status indicator
- Up to performance level PL e (EN ISO 13849)
- Safe series connection of sensors possible

Your benefits

- Fast diagnostics via LED status indicator
- Cascadability of up to 9 sensors saves costs
- Long service life due to durable and low-maintenance design
- Just one safety switch in conjunction with a suitable safety module makes it possible to solve applications up to PL e (EN ISO 13849)
- The devices are easy to clean, making them suitable for contaminated areas or environments with strict hygiene standards

Fields of application

- Position determination of hazardous movements
- Position monitoring in areas with limited access

Ordering information

Other models and accessories → www.sick.com/IN4000_Standard

- **Design:** rectangular

Dimensions	Installation type	Enable zone	Connection type Detail	Type	Part no.
40 mm x 40 mm x 66 mm	Non-flush	≤ 15 mm	Plug connector, M12, 4-pin	IN40-D0101K	6027389

- **Design:** cylindrical
- **Connection type Detail:** plug connector, M12, 4-pin

Dimensions	Thread length	Installation type	Enable zone	Type	Part no.
M18 x 90.5 mm	55 mm	Non-flush	≤ 6 mm	IN40-D0303K	6027391
	65 mm	Flush	≤ 4 mm	IN40-D0304K	6037684
M30 x 80 mm	39 mm	Non-flush	≤ 12 mm	IN40-D0202K	6027392

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