



## IN4000 Direct

Safe, non-contact position monitoring

NON-CONTACT SAFETY SWITCHES

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Sensor principle</b>	Inductive
<b>Safety integrity level</b>	SIL3 (IEC 61508) SILCL3 (EN 62061)
<b>Category</b>	Category 3 (EN ISO 13849)
<b>Performance level</b>	PL e (EN ISO 13849)
<b>Actuator coding level</b>	Uncoded (EN ISO 14119)
<b>Type of output</b>	Self-monitoring semiconductor outputs (OSSDs)
<b>Number of safe outputs</b>	2
<b>Connection type</b>	Plug connector, M12, 4-pin

### Product description

The IN4000 Direct 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. The IN4000 Direct has two safety outputs (OSSD) and can be connected directly to a suitable safety-enhanced electronic evaluation system, such as a safe control solution. Their non-contact operating principle enables simple adjustment and mounting as well as providing increased shock and vibration resistance.

### At a glance

- Two OSSD safety outputs for direct connection of sensors to a single safety controller
- Response range of up to 20 mm
- LED status indicator
- Up to performance level PL e (EN ISO 13849)
- Flexi Loop-compatible M12 plug connector

### Your benefits

- Direct connection to the safe control solution eliminates any additional wiring and reduces installation time
- Fast diagnostics via LED status indicator
- 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
- Flexi Loop now enables a safe series connection with enhanced diagnostics capabilities and minimal wiring effort.

### 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\\_Direct](http://www.sick.com/IN4000_Direct)

- **Design:** rectangular
- **Dimensions:** 40 mm x 40 mm x 66 mm
- **Installation type:** non-flush
- **Connection type Detail:** plug connector, M12, 4-pin

Enable zone	Type	Part no.
≤ 15 mm	IN40-E0101K	6027388
≤ 20 mm	IN40-E0109K	6050281

## 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)