



## IM AC

The economical standard for use in industrial environments

**INDUCTIVE PROXIMITY SENSORS**

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Housing</b>	Cylindrical thread design
<b>Thread size</b>	M12 x 1 M18 x 1 M30 x 1.5
<b>Diameter</b>	Ø 12 mm ... Ø 30 mm (depending on type)
<b>Sensing range <math>S_n</math></b>	2 mm ... 15 mm (depending on type)
<b>Housing material</b>	Brass
<b>Enclosure rating</b>	IP67

### Product description

SICK's inductive sensors offer precise detection, less downtime, and a long service life. The IM AC inductive sensors pack high technology into the smallest of spaces. The integrated ASIC chip enables digital adjustment after the end of the manufacturing process. The saving of values in the ASIC ensures highly precise switching points and very high repeatability of values – for any number of production runs. IME sensors are completely encapsulated with hot melt technology, which increases these sensors' life under shock and vibration. The customer benefits from high positioning accuracy in the machine and long-term sensor reliability.

### At a glance

- Types: M12 to M30
- Simple sensing ranges: 2 to 15 mm
- Electrical configuration: AC 2-wire, AC/DC 2-wire
- Enclosure rating: IP67
- Temperature range: -25 °C to 75 °C
- Nickel-plated brass housing; plastic sensing face

### Your benefits

- Highly flexible choice of supply voltage
- High machine availability thanks to rugged design
- Reduced machine downtimes thanks to a longer sensor service life
- High positioning accuracy thanks to precise switching behavior
- Highly cost-efficient thanks to low purchase costs

## Ordering information

Other models and accessories → [www.sick.com/IM\\_AC](http://www.sick.com/IM_AC)

- **Sub product family:** IM12 AC
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** AC 2-wire

Sensing range $S_n$	Housing	Output function	Connection type	Type	Part no.
2 mm	Standard	NC	Cable, 2-wire, 2 m	IM12-02BA0-ZUO	7902119
		NO	Cable, 2-wire, 2 m	IM12-02BAS-ZUO	7902118

- **Sub product family:** IM12 AC
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** AC 2-wire

Sensing range $S_n$	Housing	Output function	Connection type	Type	Part no.
4 mm	Standard	NC	Cable, 2-wire, 2 m	IM12-04NA0-ZUO	7902121
		NO	Cable, 2-wire, 2 m	IM12-04NAS-ZUO	7902120

- **Sub product family:** IM18 AC
- **Cylindrical thread design:** M18
- **Installation type:** flush
- **Electrical wiring:** AC/DC 2-wire

Sensing range $S_n$	Housing	Output function	Connection type	Type	Part no.
5 mm	Standard	NC	Cable, 2-wire, 2 m	IM18-05BU0-ZUO	7902123
		NO	Cable, 2-wire, 2 m	IM18-05BUS-ZUO	7902122
			Cable, 2-wire, 6 m	IM18-05BUS-ZUB	6022653

- **Sub product family:** IM18 AC
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** AC/DC 2-wire

Sensing range $S_n$	Housing	Output function	Connection type	Type	Part no.
8 mm	Standard	NC	Cable, 2-wire, 2 m	IM18-08NU0-ZUO	7902125
		NO	7/8 connector	IM18-08NUS-ZM0	6021224
			Cable, 2-wire, 2 m	IM18-08NUS-ZUO	7902124

- **Sub product family:** IM30 AC
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** AC/DC 2-wire

Sensing range $S_n$	Housing	Output function	Connection type	Type	Part no.
10 mm	Standard	NC	Cable, 2-wire, 2 m	IM30-10BU0-ZUO	7902127
		NO	Cable, 2-wire, 2 m	IM30-10BUS-ZUO	7902126

- **Sub product family:** IM30 AC
- **Cylindrical thread design:** M30
- **Installation type:** non-flush
- **Electrical wiring:** AC/DC 2-wire

Sensing range $S_n$	Housing	Output function	Connection type	Type	Part no.
15 mm	Standard	NC	Cable, 2-wire, 2 m	IM30-15NU0-ZU0	7902129
		NO	Cable, 2-wire, 2 m	IM30-15NUS-ZU0	7902128
				IM30-15NUS-ZUX	6021588
			Cable, 2-wire, 6 m	IM30-15NUS-ZUD	6022058

## 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)