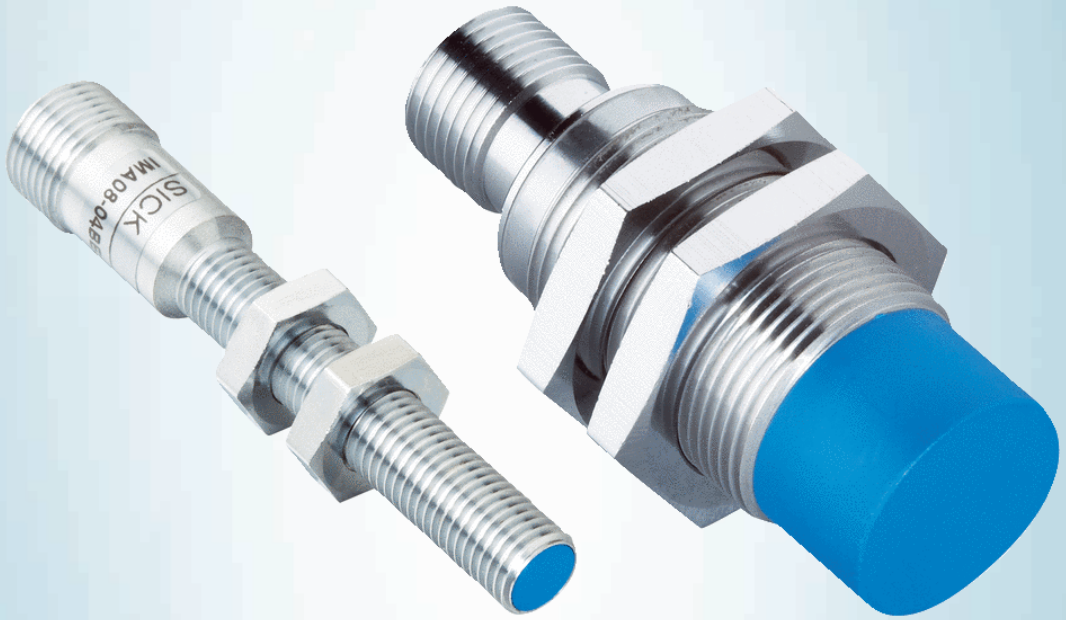
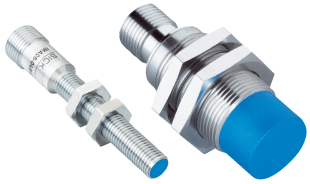
Product family overview



IMA

Analog sensors with triple sensing range for use in industrial environments

SICK
Sensor Intelligence.



Technical data overview

Housing	Cylindrical thread design
Thread size	M8 x 1 M12 x 1 M18 x 1 M30 x 1.5
Housing diameter	Ø 8 mm ... Ø 30 mm (depending on type)
Sensing range S_n	2 mm ... 40 mm (depending on type)
Housing material	Brass
Enclosure rating	IP67
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Product description

The IMA inductive analog sensors give out a current or voltage signal which is in proportional relation to the distance from the sensor to the metal target. They are therefore optimally suited for monitoring travel paths, positions or even differentiating between spaces and material variants. These sensors are characterized by extremely large detection ranges up to 40 mm, high accuracy, precision and no blind areas.

At a glance

- Types: M8 to M30
- Extended detection ranges: 0 mm to 40 mm
- Analog output signal 0 V ... 10 V and 4 mA ... 20 mA
- Enclosure rating: IP 67
- Temperature range: –25 °C to +75 °C
- Nickel-plated brass housing; plastic sensing face
- High resolution and repeatability
- Distance control and continuous position detection

Your benefits

- High positioning accuracy
- No mechanical add-on parts required for monitoring of great distances
- Less space required for the same sensing range when compared with standard sensors
- Less storage due to reduced multiplicity of types on account of integrated current and voltage interface
- Large detection areas

Ordering information

Other models and accessories ➜ www.sick.com/IMA

- **Sub product family:** IMA08
- **Cylindrical thread design:** M8
- **Installation type:** quasi-flush

Sensing range S_n	Output function	Special features	Connection type	Type	Part no.
0 mm ... 4 mm	Analog	Analog output	Male connector M12, 4-pin	IMA08-04BE3ZC0K	6041782

- **Sub product family:** IMA12
- **Cylindrical thread design:** M12
- **Output function:** Analog
- **Special features:** Analog output

Installation type	Sensing range S_n	Connection type	Type	Part no.
Flush	0 mm ... 2 mm	Cable, 4-wire, 2 m	IMA12-02BE1ZW2S	1107315
		Male connector M12, 4-pin	IMA12-02BE1ZC0S	1107314
Non-flush	0 mm ... 4 mm	Cable, 4-wire, 2 m	IMA12-04NE1ZW2S	1107329
		Male connector M12, 4-pin	IMA12-04NE1ZC0S	1107316
Quasi-flush	0 mm ... 6 mm	Male connector M12, 4-pin	IMA12-06BE1ZC0S	6056420
			IMA12-06BE3ZC0K	6041792

- **Sub product family:** IMA18
- **Cylindrical thread design:** M18
- **Output function:** Analog
- **Special features:** Analog output

Installation type	Sensing range S_n	Connection type	Type	Part no.
Flush	0 mm ... 5 mm	Cable, 4-wire, 2 m	IMA18-05BE1ZW2S	1107335
		Male connector M12, 4-pin	IMA18-05BE1ZC0S	1107332
Non-flush	0 mm ... 20 mm	Male connector M12, 4-pin	IMA18-20NE1ZC0K	6041794
	0 mm ... 8 mm	Cable, 4-wire, 2 m	IMA18-08NE1ZW2S	1105020
		Cable, 4-wire, 5 m	IMA18-08NE1ZW5S	1112286
		Male connector M12, 4-pin	IMA18-08NE1ZC0S	1104083
Quasi-flush	0 mm ... 10 mm	Male connector M12, 4-pin	IMA18-10BE1ZC0K	6041793

- **Sub product family:** IMA30
- **Cylindrical thread design:** M30
- **Special features:** Analog output

Installation type	Sensing range S_n	Output function	Connection type	Type	Part no.
Flush	0 mm ... 10 mm	Analog	Cable, 4-wire, 2 m	IMA30-10BE1ZW2S	1107312
			Male connector M12, 4-pin	IMA30-10BE1ZC0S	1107311

Installation type	Sensing range S_n	Output function	Connection type	Type	Part no.
Non-flush	0 mm ... 15 mm	Analog	Cable, 4-wire, 2 m	IMA30-15NE1ZW2S	1107309
			Male connector M12, 4-pin	IMA30-15NE1ZC0S	1107307
	0 mm ... 40 mm	Analog	Male connector M12, 4-pin	IMA30-40NE1ZC0K	6041796
Quasi-flush	0 mm ... 20 mm	–	Male connector M12, 4-pin	IM30-20B-A-ZC1	6033125
		Analog	Male connector M12, 4-pin	IMA30-20BE1ZC0K	6041795

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:

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