



# IMG

ROBUST. RELIABLE. ECONOMICAL.

Inductive proximity sensors

**SICK**  
Sensor Intelligence.

## INDUCTIVE STANDARD SENSORS FOR ECONOMICAL USE IN OUTDOOR APPLICATIONS

IMG is the ideal inductive proximity sensor family for use in harsh environments and outdoor applications. The robust mechanical design makes IMG sensors impervious to shocks, vibration, oil, cooling lubricants and weather effects such as rain, snow, mud, and frost. SICK's ASIC technology ensures precise switching points with a high level of repeatability to safeguard reliable processes in environments where many inductive sensors fail to perform. IMG combines robustness and stable detection at a viable economic level.



### At a glance

- Threaded housing sizes: M12, M18, M30
- Large sensing range up to 20 mm
- Electrical configuration: DC 3-wire
- Connection types: M12 connector or PUR cable 2 m
- Enclosure rating: IP67, IP68, IP69K
- Ambient temperature: -40 °C ... +85 °C
- Nickel-plated brass housing and nuts, LCP sensing face
- Resistant to oil and cooling lubricants; suitable for use outdoors



[www.sick.com/IMG](http://www.sick.com/IMG)



## INDUCTIVE STANDARD SENSORS FOR ECONOMICAL USE IN OUTDOOR APPLICATIONS

### Selection of bestsellers

| Size | Sensing range | Mounting  | Switching output | Connection           | Type            | Part number |
|------|---------------|-----------|------------------|----------------------|-----------------|-------------|
| M12  | 4 mm          | flush     | PNP, N/O         | Connector M12, 4-pin | IMG12-04BPSZCOS | 1094334     |
|      |               |           |                  | Cable, 2 m, PUR      | IMG12-04BPSZU2S | 1108130     |
|      | 8 mm          | non-flush | NPN, N/O         | Cable, 2 m, PUR      | IMG12-04BNSZU2S | 1135523     |
|      |               |           |                  | Connector M12, 4-pin | IMG12-08NPSZCOS | 1135516     |
| M18  | 8 mm          | flush     | PNP, N/O         | Cable, 2 m, PUR      | IMG12-08NPSZU2S | 1135517     |
|      |               |           |                  | Connector M12, 4-pin | IMG18-08BPSZCOS | 1135566     |
|      | 12 mm         | non-flush | PNP, N/O         | Connector M12, 4-pin | IMG18-08BPSZU2S | 1135567     |
|      |               |           |                  | Cable, 2 m, PUR      | IMG18-12NPSZCOS | 1135572     |
|      |               |           |                  | Cable, 2 m, PUR      | IMG18-12NPSZU2S | 1135573     |
|      |               |           |                  | Cable, 2 m, PUR      | IMG18-12NNSZU2S | 1135585     |
| M30  | 15 mm         | flush     | PNP, N/O         | Connector M12, 4-pin | IMG30-15BPSZCOS | 1135615     |
|      | 20 mm         | non-flush | PNP, N/O         | Connector M12, 4-pin | IMG30-20NPSZCOS | 1135621     |

### Customization

IMG offers a complete inductive proximity sensor portfolio to meet all standard requirements and connectivity needs. Are you still looking for the right sensor? SICK plans and implements tailor-made sensor systems to help you achieve a competitive advantage.



No matter your application, SICK has the perfect sensor to meet your requirements. From standard cylindrical or cuboid sensors with single, double, or triple operating distances to specialized sensors for hazardous environments or explosive atmospheres, SICK offers a comprehensive range of sensor solutions to keep your operations running smoothly.

### Selection of main inductive proximity sensor families

#### IME – Inductive standard sensors for economical use in industrial environments



- Enclosure rating: IP67
- Ambient temperature: -25 °C ... +70 °C
- Nickel-plated brass housing



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| Size | Sensing range | Mounting  | Switching output | Connection           | Type            | Part number |
|------|---------------|-----------|------------------|----------------------|-----------------|-------------|
| M8   | 2 mm          | flush     | PNP, N/O         | Connector M8, 3-pin  | IME08-02BPSZT0S | 1040870     |
|      | 4 mm          | non-flush | PNP, N/O         | Connector M8, 3-pin  | IME08-04NPSZT0S | 1040886     |
| M12  | 4 mm          | flush     | PNP, N/O         | Connector M12, 4-pin | IME12-04BPSZC0S | 1040764     |
|      | 8 mm          | non-flush | PNP, N/O         | Connector M12, 4-pin | IME12-08NPSZC0S | 1040780     |
| M18  | 8 mm          | flush     | PNP, N/O         | Connector M12, 4-pin | IME18-08BPSZC0S | 1040966     |
|      | 12 mm         | non-flush | PNP, N/O         | Connector M12, 4-pin | IME18-12NPSZC0S | 1040982     |
| M30  | 15 mm         | flush     | PNP, N/O         | Connector M12, 4-pin | IME30-15BPSZC0S | 1041030     |
|      | 20 mm         | non-flush | PNP, N/O         | Connector M12, 4-pin | IME30-20NPSZC0S | 1041046     |

#### IMM – Inductive miniature sensors for industrial use



- Enclosure rating: IP67
- Ambient temperature: -25 °C ... +70 °C
- Stainless steel housing



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| Size   | Sensing range | Mounting | Switching output | Connection            | Type            | Part number |
|--------|---------------|----------|------------------|-----------------------|-----------------|-------------|
| Ø 3 mm | 0.6 mm        | flush    | PNP, N/O         | Cable, 2 m, PUR       | IHM03-0B6PSVU2S | 1102476     |
|        | 1 mm          | flush    | PNP, N/O         | Pigtail, M8 connector | IHM03-01BPSVR8K | 1108735     |
| M4     | 0.6 mm        | flush    | PNP, N/O         | Cable, 2 m, PUR       | IMM04-0B6PSVU2S | 1103630     |
|        | 1 mm          | flush    | PNP, N/O         | Pigtail, M8 connector | IMM04-01BPSVR8K | 1108738     |
| Ø 4 mm | 0.8 mm        | flush    | PNP, N/O         | Cable, 2 m, PUR       | IHM04-0B8PSVU2S | 1101824     |
|        | 1.5 mm        | flush    | PNP, N/O         | Pigtail, M8 connector | IHM04-1B5PSVR8K | 1108726     |
| M5     | 0.8 mm        | flush    | PNP, N/O         | Connector M8, 3-pin   | IMM05-0B8PSVT0S | 1103984     |
|        |               |          |                  | Cable, 2 m, PUR       | IMM05-0B8PSVU2S | 1101831     |
|        | 1.5 mm        | flush    | PNP, N/O         | Connector, M8, 3-pin  | IMM05-1B5PSVT0S | 1101611     |
|        |               |          |                  | Cable, 2 m, PUR       | IMM05-1B5PSVU2S | 1101013     |

#### IQG – Compact rectangular inductive sensors with long sensing range for harsh conditions



- Enclosure rating: IP67, IP68, IP69K
- Ambient temperature: -25 °C ... +85 °C
- Plastic housing



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| Size                   | Sensing range | Mounting  | Switching output   | Connection     | Type           | Part number |
|------------------------|---------------|-----------|--------------------|----------------|----------------|-------------|
| 40 mm x 40 mm x 66 mm  | 20 mm         | flush     | PNP, complementary | Connector, M12 | IQ40-20BPPKC0K | 1071553     |
|                        | 40 mm         | non-flush | PNP, complementary | Connector, M12 | IQ40-40NPPKC0K | 1071552     |
| 40 mm x 40 mm x 118 mm | 20 mm         | flush     | PNP, complementary | Cable gland    | IQ40-20BPPKK0S | 1071860     |
|                        | 40 mm         | non-flush | PNP, complementary | Cable gland    | IQ40-40NPPKK0S | 1071863     |

## SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 11,900 employees and over 50 subsidiaries and equity investments, as well as numerous international agencies, SICK is always close to its customers. An extensive range of products and services creates the ideal basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

SICK has extensive experience in various industries and understands their processes and requirements. With intelligent sensors, SICK delivers exactly what the 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 SICK a reliable supplier and development partner.

Comprehensive services round out the offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**That is “Sensor Intelligence.”**

### **Worldwide presence:**

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Hong Kong, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → [www.sick.com](https://www.sick.com)