

**Lifetime
Warranty!***

Inductive Proximity Sensors Introducing the IP 69K INOX Series

Millions of SICK inductive proximity sensors have proven their reliability in virtually all sectors and branches of the industry. They detect metal objects and are suitable for a wide variety of other applications due to their various housing shapes and sizes.

SICK meets the highest standards.

SICK is a leader in supplying photoelectric, inductive proximity and magnetic sensors. With a broad spectrum of application know-how and a comprehensive service package, SICK products provide solutions in all industrial sectors.

Longest sensing range in the industry in single piece stainless steel housing.

The IM 12, IM 18 and IM 30 inductive INOX Proximity Sensors are rated IP 69K and have a single piece, stainless steel housing, making them more resistant to leaks and suitable for high-pressure cleaners. These innovative sensors are ideal for food and beverage production and packaging applications, such as detecting objects on accumulating conveyor sections, and in product filling and closing plants. The sensors offer a triple sensing range (up to 40 mm with the IM 30) that allows installation from a greater distance, which helps cut down on mechanical damage. The INOX series can

also detect metal targets through stainless steel up to 1 mm thick. There is no reduction for aluminum versus mild steel and minimal reduction on stainless steel. This feature makes it possible to detect commonly used metals in the Food & Beverage industry in the same range. INOX sensors come with complete IP 69K high pressure wash down solution with IP 69K stainless steel junction boxes and IP 69K cables.

SICK also offers triple sensing range inductive sensors in IP 67 nickel-plated brass housing. These compact, inductive sensors operate from a larger mounting distance on machines or conveyor systems, allowing better machine protection.

Advanced short body sensors provide an affordable sensor solution with a double sensing range.

Also available, advanced (double) sensing range sensors in 30% shorter housing than standard sensors for IM 08, IM 12 and IH 06. Advanced short body inductive proximity sensors have a shortened shape, but retain high sensing distances and frequencies. The IM 08, IM 12 and IH 06 inductive proximity sensors meet the demands of handling systems, machine tools and other high-speed machines.

SICK

Features

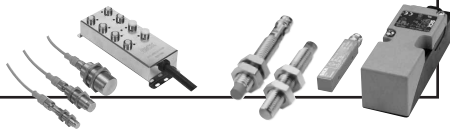
- Flexible selection due to various housing shapes, sizes and electrical configurations available
- New INOX offers the most robust solution for the Food & Beverage industry
- IP 69K stainless steel junction boxes and high pressure cables offer complete connection for INOX
- Triple range sensors for IM 08, IM 12, IM 8 and IM 30
- Advanced short body versions for IH 06, IM 08 and IM 12 with cost and application benefits
- Wide range of applications such as position polling, transport monitoring, count pulse generating and speed monitoring

Weld Field Immune Sensor from SICK.

SICK also introduced its first Weld Field Immune Sensor – the IQ 40. This sensor is immune to welding equipment pulsing, eliminating false signals. The sensor comes in IQ 40 housing and detects all metals at the same range (35 mm) and offers a complementary output. SICK also provides a PTFE cap as an accessory to repel weld slag and ensure safe operation.

* Lifetime warranty does not apply to INOX products.

You can find the optimum application solution with standard, double, or triple sensing range inductive sensors from SICK!



Inductive Proximity Sensors Selection Table

| Series | Housing | | Sensing Range s _n in mm | | Switching Output | | Output Function | | | Connection Type | | | Electrical Configuration | | |
|---------------------------|----------------------------|--------------|---------------------------------------|----------|---------------------|-----|--------------------|----|----|--------------------|-------|-----------|-----------------------------|-----------|-----------|
| | Design | Size in mm | Material | Flush | Non-Flush | PNP | NPN | NO | NC | NO/NC progr/compl | Cable | Connector | | Terminals | |
| IM 04 | Cylinder with thread | M4 | Plated Brass | 0.6 | | • | • | • | | | • | | | DC 3-w. | |
| IM 05 | | M5 | Plated Brass | 0.8 | | • | • | • | | | • | • | | DC 3-w. | |
| IM 08¹⁾ | | M8 | Plated Brass | 1.5/2/3 | 2.5/4/6 | • | • | • | • | | | • | • | | DC 3-w. |
| IM 12²⁾ | | M12 | Plated Brass | 2/4/6 | 4/8/10 | • | • | • | • | • | | • | • | | DC 3/4-w. |
| IM 18²⁾ | | M18 | Plated Brass | 5/8/12 | 8/12/20 | • | • | • | • | • | | • | • | | DC 3/4-w. |
| IM 30²⁾ | | M30 | Plated Brass | 10/15/22 | 15/20/40 | • | • | • | • | | | • | • | | DC 3-w. |
| IM 12 | | M12 | Plated Brass | 2 | 4 | | | | • | | | • | • | | DC 2-w. |
| IM 18 | | M18 | Plated Brass | 5 | 8 | | | | • | | | • | • | | DC 2-w. |
| IM 30 | M30 | Plated Brass | 10 | 15 | | | | • | | | • | • | | DC 2-w. | |
| IH 03 | Barrel, smooth | ø3 | Stainless steel | 0.6 | | • | • | • | | | • | | | DC 3-w. | |
| IH 04 | | ø4 | Stainless steel | 0.8 | | • | • | • | | | • | • | | DC 3-w. | |
| IH 06¹⁾ | | ø6.5 | Stainless steel | 1.5/2 | 4 | • | • | • | | | | • | • | | DC 3-w. |
| IQ 05 | Rectangle | 5x5x25 | Plated Brass | 0.8 | | • | • | • | | | • | | | DC 3-w. | |
| IQ 08 | | 8x40/8x49 | Plastic | 2 | 4 | • | • | • | | | | • | • | | DC 3-w. |
| IQ 10 | | 10x28/16x37 | Plastic | 3 | 6 | • | • | • | | | | • | • | | DC 3-w. |
| IQ 12 | | 12x40/26x49 | Plastic | 3 | 6 | • | • | • | | | | • | • | | DC 3-w. |
| IQ 40 | | 41x41x121 | Plastic | 15 | 20 | • | | | | • | | | • | | DC 3-w. |
| IQ 40 | | 40x40x66 | Plastic | 15/20 | 35 | • | | • | | | • | | • | | DC 3/4-w. |
| IQ 80 | | 80x40x105 | Plastic | | 60 | • | | | | | • | | • | | DC 3-w. |
| IM 12 | Cylinder with thread | M12 | Plated Brass | 2 | 4 | | | • | • | | • | | | AC | |
| IM 18 | | M18 | Plated Brass | 5 | 8 | | | • | | | • | • | | AC/DC | |
| IM 30 | | M30 | Plated Brass | 10 | 15 | | | • | • | | • | | | AC/DC | |
| IH 20 | Barrel, smooth | ø20 | Plastic | | 10 | | | • | | | • | | | AC/DC | |
| IH 34 | | ø34 | Plastic | | 30 | | | • | • | | • | | | AC/DC | |
| IQ 40 | Rectangle | 41x41x121 | Plastic | 15 | 20 | | | | | • | | • | | AC/DC | |
| IQ 80 | | 80x40x105 | Plastic | | 60 | | | | | • | | • | | AC/DC | |
| IM 08 | Cylinder with thread | M8 | Plated Brass | 1 | | | | | | | • | | | NAMUR | |
| IM 12 | | M12 | Plated Brass | 2 | 4 | | | | | | • | | | NAMUR | |
| IM 18 | | M18 | Plated Brass | 5 | 8 | | | | | | • | | | NAMUR | |
| IM 30 | | M30 | Plated Brass | 10 | 15 | | | | | | • | | | NAMUR | |

1) Available as double sensing range with short body

2) Available as INOX