



# Full metal housing inductive sensors for the food industry.



**Tough: extremely resistant to chemical influences and temperature shocks.**

- Food-grade housing materials.
- High ingress resistance IP 67 / IP 68 / IP 69K.
- Wide temperature range: 0...100 °C.
- Resistant to high-pressure cleaning and aggressive cleaning agents.
- Lasered type label: permanently legible.

High-grade stainless steel

Operating temperature up to 100°C

IP 67  
IP 68  
IP 69 K

Resistant to aggressive media

## Ingress-resistant in hygienic and wet areas

The sensors for use up to 100 °C undergo frequent cleaning operations, temperature shocks and feature high resistance to cleaning agents.

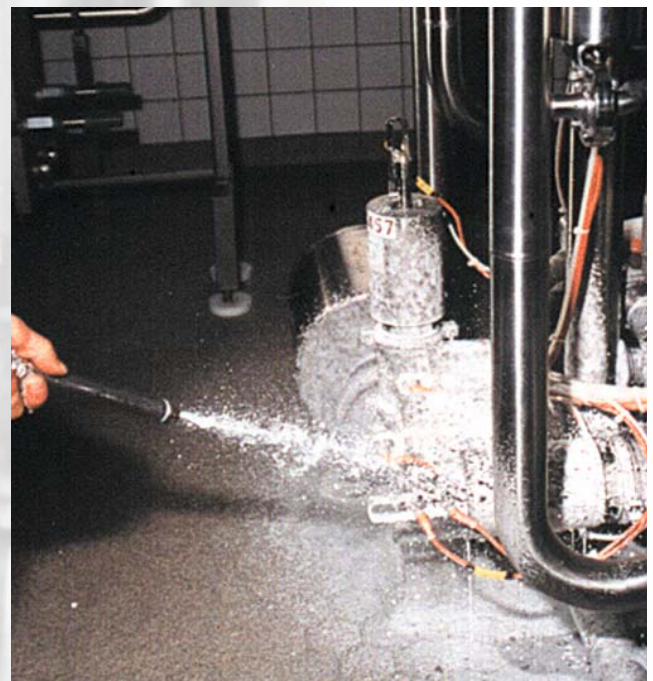
### Materials

The threaded body and the sensing face of the housing are made of stainless steel.

### Application tests

A series of tests qualified the sensors for food applications:

- temperature shock test
- 1000-h long-term test
- steam boiler test




fluid sensors and diagnostic systems

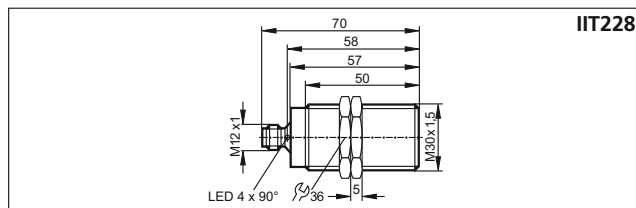
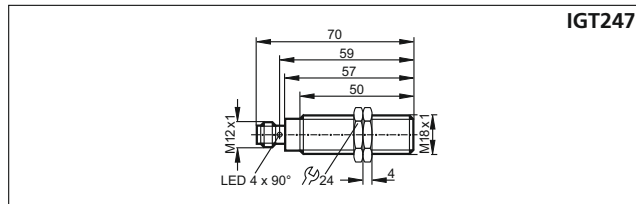
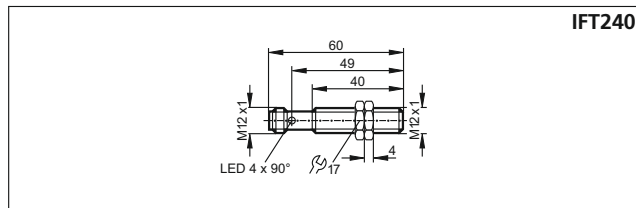
position sensors and object recognition

bus, identification and control systems

**Applications:**  
Hygienic and wet areas

| Type   | Dimensions Length [mm] | Sensing range [mm] | f [Hz] | Operating temperature [°C] | Housing material           | I <sub>load</sub> [mA] | Order no.     |
|--|------------------------|--------------------|--------|----------------------------|----------------------------|------------------------|---------------|
| <b>M12 connector · output function  · 3-wire DC PNP</b> |                        |                    |        |                            |                            |                        |               |
| M12  | L = 60                 | 3 f                | 100    | 0...100                    | high-grade stainless steel | 100                    | <b>IFT240</b> |
| M18  | L = 70                 | 5 f                | 100    | 0...100                    | high-grade stainless steel | 100                    | <b>IGT247</b> |
| M30  | L = 70                 | 10 f               | 50     | 0...100                    | high-grade stainless steel | 100                    | <b>IIT228</b> |

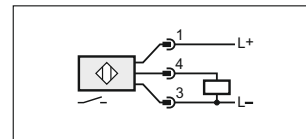
**Dimensions**









**Common technical data**

| Type IFT, IGT, IIT                     |        |                        |
|--|--------|------------------------|
| Operating voltage                      | [V DC] | 10...36                |
| Current consumption                    | [mA]   | < 20                   |
| Short-circuit protection, pulsed       |        | •                      |
| Reverse polarity / overload protection |        | • / •                  |
| Voltage drop                           | [V]    | < 2.5                  |
| Protection rating                      |        | IP 67 / IP 68 / IP 69K |
| Switching status                       | LED    | yellow (4 x 90°)       |





**Wiring diagram**



**Connectors and splitter boxes**

| Type  | Description                                     | Order no.     |
|---|---|---------------|
|  | M12 socket, 4-pole, 5 m orange, PVC cable       | <b>EVT001</b> |
|  | M12 socket, 4-pole, 10 m orange, PVC cable      | <b>EVT002</b> |
|  | M12 socket, 4-pole, 5 m orange, PVC cable       | <b>EVT004</b> |
|  | M12 socket, 4-pole, 10 m orange, PVC cable      | <b>EVT005</b> |
|  | M12 socket, 4-pole, 5 m orange, PVC cable, LED  | <b>EVT007</b> |
|  | M12 socket, 4-pole, 10 m orange, PVC cable, LED | <b>EVT008</b> |

**Accessories**

| Type  | Description                                 | Order no.     |
|---|---|---------------|
|  | Angle bracket for type M12, stainless steel | <b>E10735</b> |
|  | Angle bracket for type M18, stainless steel | <b>E10736</b> |
|  | Angle bracket for type M30, stainless steel | <b>E10737</b> |
|  | Mounting clip for type M12, stainless steel | <b>E11533</b> |
|  | Mounting clip for type M18, stainless steel | <b>E11534</b> |

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