

ICS Series Inductive Proximity Sensors



ITC presents a new series of Inductive Proximity Sensors from COMEPI. This family of cylindrical devices in the common sizes M8, M12, M16 and M30 are extremely accurate and represent the optimal choice for non-contact detection of metal targets, at distances up to 22mm.

Comepi's ICS sensors are built with mechanical toughness in mind, appropriate for most industrial environments, and respecting environmental requirements in the choice of materials, including special potting resins to protect the electronic components. These sensors are rated IP67 and are individually calibrated to ensure highly accurate and repeatable operation over a wide temperature range (-25 to 70 °C, -13° to 158 °F).



Features and Specifications:

| | M8 | M12 | M18 | M30 |
|--------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Rated operational voltage (DC) | 10-36V | | | |
| No-load current I | <16mA | | | |
| Output current at 50C | <200mA | | | |
| Output current at 50-70C | <150mA (@ 50-80C) | | | |
| Indication for output ON | Yellow LED | | | |
| Indication for short circuit | LED blinking 2Hz | | | |
| Switching distance Sn (mm) | 2 (flush) 4 (non flush) | 4 (flush) 8 (non flush) | 8 (flush) 14 (non flush) | 15 (flush) 22 (non flush) |
| Ambient temperature, operating | -25C to +80C | -25C to +70C | | -25C to +70C |
| Ambient temperature, storage | -30C to +80C | -30C to +80C | | -40C to +80C |
| Cable | 2m - 3 x 0.14mm ² | 2m - 3 x 0.25mm ² | 2m - 3 x 0.25mm ² | 2m - 3 x 0.34mm ² |
| Connector | M8 3-pin male connector | M12 4-pin male connector | | |
| Materials - housing | Stainless steel AISI304 | Nickel-plated brass | | |
| IP rating | IP67 | | | |
| Approvals | cULus | cULus | cULus | cULus |

Information subject to change without notice

ICS 30mm sensors - construction:

01 Sensing face

- Flush
- Non-flush

02 Fixing

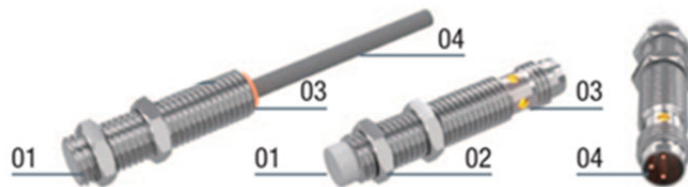
- Easy mounting
- Two nuts for sensor fixing
- Four sizes for sensor: M8, M12, M18, M30

03 Signalling

- Yellow LED visible from every angle
- Flashing output: short circuit or overload indication

04 Connection

- M8 connector
- M12 connector
- 2m cable PVC



Inductive Proximity Sensors - round - 30mm (Order by Part No.)

| Part No. | Description | Material | Cylinder Size | Sensing distance Sn | Sensing Face | Connector |
|-----------------|------------------------------------|-----------------|---------------|---------------------|--------------|-----------|
| ICSMB30F04P1020 | Inductive Proximity Sensor; PNP NO | Brass | M12 | 4mm | Flush | 2m cable |
| ICSMB30N08P1020 | Inductive Proximity Sensor; PNP NO | Brass | M12 | 8mm | Non-flush | 2m cable |
| ICSMB30F04P1M12 | Inductive Proximity Sensor; PNP NO | Brass | M12 | 4mm | Flush | M12 |
| ICSMB30N08P1M12 | Inductive Proximity Sensor; PNP NO | Brass | M12 | 8mm | Non-flush | M12 |
| ICSMC30F08P1020 | Inductive Proximity Sensor; PNP NO | Brass | M18 | 8mm | Flush | 2m cable |
| ICSMC30N14P1020 | Inductive Proximity Sensor; PNP NO | Brass | M18 | 14mm | Non-flush | 2m cable |
| ICSMC30F08P1M12 | Inductive Proximity Sensor; PNP NO | Brass | M18 | 8mm | Flush | M12 |
| ICSMC30N14P1M12 | Inductive Proximity Sensor; PNP NO | Brass | M18 | 14mm | Non-flush | M12 |
| ICSMD30F15P1020 | Inductive Proximity Sensor; PNP NO | Brass | M30 | 15mm | Flush | 2m cable |
| ICSMD30N22P1020 | Inductive Proximity Sensor; PNP NO | Brass | M30 | 22mm | Non-flush | 2m cable |
| ICSMD30F15P1M12 | Inductive Proximity Sensor; PNP NO | Brass | M30 | 15mm | Flush | M12 |
| ICSMD30N22P1M12 | Inductive Proximity Sensor; PNP NO | Brass | M30 | 22mm | Non-flush | M12 |
| ICSXA30F02P1020 | Inductive Proximity Sensor; PNP NO | Stainless Steel | M8 | 2mm | Flush | 2m cable |
| ICSXA30N04P1020 | Inductive Proximity Sensor; PNP NO | Stainless Steel | M8 | 4mm | Non-flush | 2m cable |
| ICSXA30F02P1M8 | Inductive Proximity Sensor; PNP NO | Stainless Steel | M8 | 2mm | Flush | M8 |
| ICSXA30N04P1M8 | Inductive Proximity Sensor; PNP NO | Stainless Steel | M8 | 4mm | Non-flush | M8 |

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2m cable: PVC - UL; M8 Connector: A size; 3 poles; M12 Connector: B-C-D size; 4 poles

Mounting locknuts included (2)



Accessories - Inductive Proximity Sensors (Order by Part No.)

| Part No. | Description | Poles | Gender | Cable length |
|------------|--------------------------------|-------|--------|--------------|
| XX3D030SM8 | M8 connection cable; straight | 3 | Female | 3m |
| XX3D050SM8 | M8 connection cable; straight | 3 | Female | 5m |
| XX3A03SM8 | M8 connection cable; 90 deg | 3 | Female | 3m |
| XX3A05SM8 | M8 connection cable; 90 deg | 3 | Female | 5m |
| XX4D030SM | M12 connection cable; straight | 4 | Female | 3m |
| XX4D050SM | M12 connection cable; straight | 4 | Female | 5m |
| XX4A030SM | M12 connection cable; 90 deg | 4 | Female | 3m |
| XX4A050SM | M12 connection cable; 90 deg | 4 | Female | 5m |

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