



IMF

Inductive sensors for wash down 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 ... 20 mm (depending on type) |
| Electrical wiring | DC 3-wire / DC 4-wire (depending on type) |
| Housing material | Stainless steel V4A |
| Enclosure rating | IP68 / IP69K / IP67 (depending on type) |
| 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 ... 20 mm (depending on type) |
| Electrical wiring | DC 3-wire / DC 4-wire (depending on type) |
| Housing material | Stainless steel V4A |
| Enclosure rating | IP68 / IP69K / IP67 (depending on type) |

Product description

The IMF inductive proximity sensor is the new standard for reliability in the food industry. With its extended sensing ranges, made highly precise thanks to the use of SICK ASIC technology, the IMF ensures reliable, stable processes. What's more, its wide-ranging specification limits allow the IMF to be used in all areas of food production: a huge benefit when it comes to product selection and warehousing. The optical adjustment indicator saves time during commissioning and helps cut down on errors. Communication via IO-Link is also possible, creating more flexibility and adding more functions for automation applications. With an extensive standard product portfolio available, even special devices can be put into action quickly and easily.

At a glance

- Types: M8 to M30
- Extended sensing ranges: 2 mm to 20 mm
- Electrical configuration: DC 3-/4-wire
- Enclosure rating: IP 68, IP 69K
- Temperature range: -40 °C to +100 °C
- Food-compatible stainless-steel housing, plastic sensing face
- Optical adjustment indicator, IO-Link-ready
- Resistant to industrial cleaning agents, Ecolab-certified

Your benefits

- Reliable processes thanks to extended, highly accurate sensing ranges enabled through the use of SICK ASIC technology
- Reduced machine downtimes thanks to a longer service life, even when subjected to frequent cleaning cycles
- Quick and easy installation thanks to the optical adjustment indicator
- High degree of flexibility and communication options thanks to IO-Link
- Easy to implement customer-specific variants thanks to a modular concept

Fields of application

- Monitoring the positions of bend couplings on mixing panels
- Monitoring the positions of globe valves
- Position sensing for food production facilities:

Ordering information

Other models and accessories → www.sick.com/IMF

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 2 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF08-02BNSNCOS | 1076749 |
| PNP | NC | IMF08-02BPONCOS | 1076747 |

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 2 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF08-02BPSNCOS | 1076745 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 2 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link | Male connector M12, 4-pin ¹⁾ | IMF08-02BPSNCOSX01 | 1099577 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 4 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF08-04NNSNCOS | 1076753 |
| PNP | NC | IMF08-04NPONCOS | 1076751 |

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 4 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF08-04NPSNCOS | 1076750 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 4 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link | Male connector M12, 4-pin ¹⁾ | IMF08-04NPSNCOSX02 | 1099578 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 2 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|---|---|-----------------|----------|
| PNP | Complementary | Resistant to cleaning agents, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF08-02BPPNCOS | 1076748 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 4 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|---|---|-----------------|----------|
| PNP | Complementary | Resistant to cleaning agents, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF08-04NPPNCOS | 1076752 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 4 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF12-04BNSNCOS | 1076671 |
| PNP | NC | IMF12-04BPONCOS | 1076670 |

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 4 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjust- | Male connector M12, 4-pin ¹⁾ | IMF12-04BPSNCOS | 1076673 |

¹⁾ With gold plated contact pins.

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|---|-----------------|------|----------|
| | | ment indicator, IO-Link, Temperature resistance | | | |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135°C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n:** 4 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link | Male connector M12, 4-pin ¹⁾ | IMF12-04BPSNCOSX01 | 1099579 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 8 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF12-08NNSNCOS | 1076677 |
| PNP | NC | IMF12-08NPONCOS | 1076676 |

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n:** 8 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF12-08NPSNCOS | 1076675 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 8 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link | Male connector M12, 4-pin ¹⁾ | IMF12-08NPSNCOSX02 | 1099580 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 4 mm
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant to cleaning agents, IO-Link, Temperature resistance

| Housing | Connection type | Type | Part no. |
|-----------------|---|-----------------|----------|
| Standard design | Cable, 4-wire, 2 m | IMF12-04BPPNS2S | 1093466 |
| | Male connector M12, 4-pin ¹⁾ | IMF12-04BPPNCOS | 1076674 |
| Short-body | Male connector M12, 4-pin ¹⁾ | IMF12-04BPPNCOK | 1083497 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 8 mm
- **Housing:** Standard design
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant to cleaning agents, IO-Link, Temperature resistance

| Connection type | Type | Part no. |
|---|-----------------|----------|
| Cable, 4-wire, 10 m ¹⁾ | IMF12-08NPPNS6S | 1119172 |
| Male connector M12, 4-pin ¹⁾ | IMF12-08NPPNCOS | 1076678 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 8 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF18-08BNSNCOS | 1076664 |
| PNP | NC | IMF18-08BPONCOS | 1076663 |

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 8 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF18-08BPSNCOS | 1076662 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 8 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link | Male connector M12, 4-pin ¹⁾ | IMF18-08BPSNCOSX01 | 1099581 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 12 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF18-12NNSNCOS | 1076668 |
| PNP | NC | IMF18-12NPONCOS | 1076667 |

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 12 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF18-12NPSNCOS | 1076666 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 12 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link | Male connector M12, 4-pin ¹⁾ | IMF18-12NPSNCOSX02 | 1099582 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 8 mm
- **Housing:** Standard design
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant to cleaning agents, IO-Link, Temperature resistance

| Connection type | Type | Part no. |
|---|-----------------|----------|
| Cable, 4-wire, 2 m ¹⁾ | IMF18-08BPPNS2S | 1093468 |
| Male connector M12, 4-pin ¹⁾ | IMF18-08BPPNCOS | 1076665 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 12 mm
- **Housing:** Standard design
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant to cleaning agents, IO-Link, Temperature resistance

| Connection type | Type | Part no. |
|---|-----------------|----------|
| Cable, 4-wire, 2 m ¹⁾ | IMF18-12NPPNS2S | 1093469 |
| Male connector M12, 4-pin ¹⁾ | IMF18-12NPPNCOS | 1076669 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 15 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF30-15BNSNCOS | 1076657 |
| PNP | NC | IMF30-15BPONCOS | 1076654 |

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 15 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF30-15BPSNCOS | 1076653 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 15 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF30-15BPSNCOSX01 | 1099583 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n :** 20 mm
- **Housing:** Standard design
- **Special features:** Resistant to cleaning agents, Visual adjustment indicator, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

| Switching output | Output function | Type | Part no. |
|------------------|-----------------|-----------------|----------|
| NPN | NO | IMF30-20NNSNCOS | 1076661 |
| PNP | NC | IMF30-20NPONCOS | 1076659 |

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 20 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|-----------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF30-20NPSNCOS | 1076658 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Info:** II 3G Ex ec IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Sensing range S_n :** 20 mm
- **Housing:** Standard design

| Switching output | Output function | Special features | Connection type | Type | Part no. |
|------------------|-----------------|--|---|--------------------|----------|
| PNP | NO | Resistant to cleaning agents, Visual adjustment indicator, IO-Link, Temperature resistance | Male connector M12, 4-pin ¹⁾ | IMF30-20NPSNCOSX02 | 1099584 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 15 mm
- **Housing:** Standard design
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant to cleaning agents, IO-Link, Temperature resistance

| Connection type | Type | Part no. |
|---|-----------------|----------|
| Cable, 4-wire, 2 m ¹⁾ | IMF30-15BPPNS2S | 1093470 |
| Male connector M12, 4-pin ¹⁾ | IMF30-15BPPNCOS | 1076656 |

¹⁾ With gold plated contact pins.

- **Sub product family:** IMF30
- **Cylindrical thread design:** M30
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Sensing range S_n :** 20 mm
- **Housing:** Standard design
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant to cleaning agents, IO-Link, Temperature resistance

| Connection type | Type | Part no. |
|---|-----------------|----------|
| Cable, 4-wire, 2 m ¹⁾ | IMF30-20NPPNS2S | 1093471 |
| Male connector M12, 4-pin ¹⁾ | IMF30-20NPPNCOS | 1076660 |

¹⁾ With gold plated contact pins.

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:

Contacts and other locations –www.sick.com