



## IMF (phaseout generation)

Inductive sensors for wash down environments

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Housing</b>	Metric
<b>Thread size</b>	M12 x 1 M18 x 1
<b>Diameter</b>	Ø 12 mm / Ø 18 mm (depending on type)
<b>Sensing range S<sub>n</sub></b>	2 mm ... 12 mm (depending on type)
<b>Housing material</b>	Stainless steel V4A
<b>Enclosure rating</b>	IP68, IP69K
<b>Housing</b>	Metric
<b>Thread size</b>	M12 x 1 M18 x 1
<b>Housing diameter</b>	Ø 12 mm / Ø 18 mm (depending on type)
<b>Sensing range S<sub>n</sub></b>	2 mm ... 12 mm (depending on type)
<b>Electrical wiring</b>	DC 3-wire / DC 4-wire (depending on type)
<b>Housing material</b>	Stainless steel V4A
<b>Enclosure rating</b>	IP68, IP69K
<b>Housing</b>	Metric
<b>Thread size</b>	M12 x 1 M18 x 1
<b>Housing diameter</b>	Ø 12 mm / Ø 18 mm (depending on type)
<b>Sensing range S<sub>n</sub></b>	2 mm ... 12 mm (depending on type)
<b>Electrical wiring</b>	DC 3-wire / DC 4-wire (depending on type)
<b>Housing material</b>	Stainless steel V4A
<b>Enclosure rating</b>	IP68, IP69K

## Product description

IMF inductive proximity sensors are specifically designed to work in the wash down conditions of the food and beverage industry. IMF housings are not only made of an extremely rugged mix of stainless steel (316L/1.4404) and the Food and Drug Administration (FDA)-certified plastic PPS, but they also withstand the most stringent cleaning processes.

## At a glance

- Extremely watertight (IP68/IP69K) for wash down environments
- Stainless steel housing (316L/1.4404)
- Front cap made of PPS (FDA-certified material)
- Extended temperature range (-40 to +80 °C). Tolerates short-term temperature increases up to 100 °C
- Resistant to industrial cleaning agents, ECOLAB and JohnsonDiversey certified
- Laser etched part number

## Your benefits

- Reduced machine downtime
- Hygienic process due to FDA approved material and hygienic design
- Reduced maintenance costs due to sensor's resistance to aggressive cleaning cycles
- No restrictions on cleaning agents or processes, ensuring reliable operation

## Ordering information

Other models and accessories → [www.sick.com/IMF\\_\(phaseout\\_generation\)](http://www.sick.com/IMF_(phaseout_generation))

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Special features:** Resistant to cleaning agents
- **Connection type:** male connector M12, 4-pin

Electrical wiring	Sensing range $S_n$	Switching output	Output function	Type	Part no.
DC 3-wire	2 mm	NPN	NC	IMF12-02BNOVC0S	6035455
			NO	IMF12-02BNSVC0S	6035453
		PNP	NC	IMF12-02BPOVC0S	6035454
			NO	IMF12-02BPSVC0S	6035452
	4 mm	NPN	NC	IMF12-04BNOVC0S	6035463
			NO	IMF12-04BNSVC0S	6035461
		PNP	NC	IMF12-04BPOVC0S	6035462
			NO	IMF12-04BPSVC0S	6035460
DC 4-wire	2 mm	NPN	Complementary	IMF12-02BNPVC0S	6035216
		PNP	Complementary	IMF12-02BPPVC0S	6035215
	4 mm	NPN	Complementary	IMF12-04BNPVC0S	6035220
		PNP	Complementary	IMF12-04BPPVC0S	6035219

- **Sub product family:** IMF12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Special features:** Resistant to cleaning agents
- **Connection type:** male connector M12, 4-pin

Electrical wiring	Sensing range $S_n$	Switching output	Output function	Type	Part no.
DC 3-wire	4 mm	NPN	NC	IMF12-04NNOVC0S	6035459
			NO	IMF12-04NNSVC0S	6035457
		PNP	NC	IMF12-04NPOVC0S	6035458
			NO	IMF12-04NPSVC0S	6035456
	8 mm	NPN	NC	IMF12-08NNOVC0S	6035467
			NO	IMF12-08NNSVC0S	6035465
		PNP	NC	IMF12-08NPOVC0S	6035466
			NO	IMF12-08NPSVC0S	6035464
DC 4-wire	4 mm	NPN	Complementary	IMF12-04NNPVC0S	6035218
		PNP	Complementary	IMF12-04NPPVC0S	6035217
	8 mm	NPN	Complementary	IMF12-08NNPVC0S	6035222
		PNP	Complementary	IMF12-08NPPVC0S	6035221

# IMF (phaseout generation)

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** flush
- **Special features:** Resistant to cleaning agents
- **Connection type:** male connector M12, 4-pin

Electrical wiring	Sensing range $S_n$	Switching output	Output function	Type	Part no.
DC 3-wire	5 mm	NPN	NC	IMF18-05BNOVCOS	6035471
			NO	IMF18-05BNSVCOS	6035469
		PNP	NC	IMF18-05BPOVCOS	6035470
			NO	IMF18-05BPVCOS	6035468
	8 mm	NPN	NC	IMF18-08BNOVCOS	6035479
			NO	IMF18-08BNSVCOS	6035477
		PNP	NC	IMF18-08BPOVCOS	6035478
			NO	IMF18-08BPVCOS	6035476
DC 4-wire	5 mm	NPN	Complementary	IMF18-05BNPVCOS	6035224
		PNP	Complementary	IMF18-05BPPVCOS	6035223
	8 mm	NPN	Complementary	IMF18-08BNPVCOS	6035228
		PNP	Complementary	IMF18-08BPPVCOS	6035227

- **Sub product family:** IMF18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Special features:** Resistant to cleaning agents
- **Connection type:** male connector M12, 4-pin

Electrical wiring	Sensing range $S_n$	Switching output	Output function	Type	Part no.
DC 3-wire	12 mm	NPN	NC	IMF18-12NNOVCOS	6035483
			NO	IMF18-12NNSVCOS	6035481
		PNP	NC	IMF18-12NPOVCOS	6035482
			NO	IMF18-12NPSVCOS	6035480
	8 mm	NPN	NC	IMF18-08NNOVCOS	6035475
			NO	IMF18-08NNSVCOS	6035473
		PNP	NC	IMF18-08NPOVCOS	6035474
			NO	IMF18-08NPSVCOS	6035472
DC 4-wire	12 mm	NPN	Complementary	IMF18-12NNPVCOS	6035230
		PNP	Complementary	IMF18-12NPPVCOS	6035229
	8 mm	NPN	Complementary	IMF18-08NNPVCOS	6035226
		PNP	Complementary	IMF18-08NPPVCOS	6035225

## 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](http://www.sick.com)