Product family overview



IMB

The rugged standard for use in harsh ambient conditions

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	1.5 mm ... 20 mm (depending on type)
Electrical wiring	DC 2-wire DC 3-wire DC 4-wire (depending on type)
Housing material	Stainless steel V2A
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	1.5 mm ... 20 mm (depending on type)
Electrical wiring	DC 2-wire DC 3-wire DC 4-wire (depending on type)
Housing material	Stainless steel V2A
Enclosure rating	IP68 / IP69K / IP67 (depending on type)

Product description

The inductive IMB proximity sensor is a byword for reliability in harsh working conditions, whether it is in contact with cooling lubricants or being used outdoors. With its extended sensing ranges, made highly precise thanks to the use of SICK ASIC technology, the IMB ensures reliable, stable processes. What's more, its wide-ranging specification limits allow the IMB to be used in applications where specialist devices were once the only solution – a huge benefit when it comes to product selection and warehousing. The optical adjustment indicator and self-locking nuts save time during commissioning and help 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, DC 2-wire
- Enclosure rating: IP 68, IP 69K
- Temperature range: –40 °C to +100 °C
- Rugged stainless-steel housing; plastic sensing face
- Optical adjustment indicator, IO-Link-ready
- Resistant to oils and cooling lubricants; suitable for use outdoors

Your benefits

- Straightforward product selection as fewer sensor variants are required – one sensor suits a whole range of applications
- Stable processes thanks to extended, highly precise sensing ranges enabled through the use of the latest SICK ASIC technology
- Reduced machine downtimes thanks to longer sensor service life, even in harsh working conditions
- Quick and easy installation thanks to optical adjustment indicator and self-locking nuts
- High degree of flexibility and communication options thanks to IO-Link
- Easy to implement customer-specific variants within the standard product portfolio

Fields of application

- Machine tool
- Container spreaders
- Wind power plants
- Car wash facilities
- Doors and gates outdoors
- Steel mills

Ordering information

Other models and accessories ➜ www.sick.com/IMB

- **Sub product family:** IMB08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 2 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB08-02BDSVU2S	1074354
	Connector M8, 3-pin [1]	IMB08-02BDSVT0S	1074348
Short-body	Cable, 2-wire, 5 m	IMB08-02BDSVU5K	1082062
	Cable, 2-wire, 2 m	IMB08-02BDSVU2K	1075585
	Connector M8, 3-pin [1]	IMB08-02BDSVT0K	1075583

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 4 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB08-04NDSVU2S	1074358
	Connector M8, 3-pin [1]	IMB08-04NDSVT0S	1076276
Short-body	Cable, 2-wire, 2 m	IMB08-04NDSVU2K	1075586
	Connector M8, 3-pin [1]	IMB08-04NDSVT0K	1075584

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range S_n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
1.5 mm	Standard design	PNP	NO	Resistant against coolant lubricants, Temperature resistance	Cable, 3-wire, 3 m	IMB08-1B5PSVU3SS09	1110677
	Short-body	PNP	NO		Cable, 3-wire, 3 m	IMB08-1B5PSVU3KS10	1110678

[1] With gold plated contact pins.

Sensing range S_n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
2 mm	Standard design	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB08-02BNOVU2S	1072686
					Connector M8, 3-pin [1]	IMB08-02BNOVT0S	1072591
					Male connector M12, 4-pin [1]	IMB08-02BNOVC0S	1072676
			NO		Cable, 3-wire, 5 m	IMB08-02BNSVU5S	1080663
					Cable, 3-wire, 2 m	IMB08-02BNSVU2S	1072685
					Connector M8, 3-pin [1]	IMB08-02BNSVT0S	1072590
					Male connector M12, 4-pin [1]	IMB08-02BNSVC0S	1072675
		PNP	NC		Cable, 3-wire, 2 m	IMB08-02BPOVU2S	1072684
					Connector M8, 3-pin [1]	IMB08-02BPOVT0S	1072589
					Male connector M12, 4-pin [1]	IMB08-02BPOVC0S	1072674
	Short-body	NPN	NC		Cable, 3-wire, 2 m	IMB08-02BNOVU2K	1072700
					Connector M8, 3-pin [1]	IMB08-02BNOVT0K	1072693
			NO		Cable, 3-wire, 5 m	IMB08-02BNSVU5K	1086821
					Cable, 3-wire, 2 m	IMB08-02BNSVU2K	1072699
					Connector M8, 3-pin [1]	IMB08-02BNSVT0K	1072762
		PNP	NC	Resistant against coolant lubricants, Visual adjustment indicator	Cable with connector M12, 3-pin, 600 mm	IMB08-02BPOVQDK	1111805
				Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB08-02BPOVU2K	1072698
					Connector M8, 3-pin [1]	IMB08-02BPOVT0K	1072692
			NO		Connector M8, 3-pin [1]	IMB08-02BPSVT0KS07	1092109

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **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
- **Switching output:** PNP
- **Output function:** NO

Housing	Special features	Connection type	Type	Part no.
Standard design	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 5 m	IMB08-02BPSVU5S	1089658
		Cable, 3-wire, 2 m	IMB08-02BPSVU2S	1072683
		Cable, 3-wire, 5 m	IMB08-02BPSVW5S	1135970
		Connector M8, 3-pin [1)]	IMB08-02BPSVT0S	1070168
		Male connector M12, 4-pin [1)]	IMB08-02BPSVC0SS14	1134594
			IMB08-02BPSVC0S	1072673
Short-body	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link	Cable with connector M12, 3-pin, 600 mm	IMB08-02BPSVQDK	1096132
	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 5 m	IMB08-02BPSVU5K	1090949
			IMB08-02BPSVU5KS12	1126252
		Cable, 3-wire, 2 m	IMB08-02BPSVU2K	1072697
		Connector M8, 3-pin [1)]	IMB08-02BPSVT0K	1072691
		Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IMB08-02BPSVR8K	1092111

[1)] With gold plated contact pins.

- **Sub product family:** IMB08
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link	Connector M8, 3-pin [1)]	IMB08-02BPSVT0SX01	1099567

[1)] With gold plated contact pins.

- **Sub product family:** IMB08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 4 mm
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Switching output	Output function	Connection type	Type	Part no.
Standard design	NPN	NC	Cable, 3-wire, 2 m	IMB08-04NNOVU2S	1072690
			Connector M8, 3-pin [1]	IMB08-04NNOVT0S	1072671
			Male connector M12, 4-pin [1]	IMB08-04NNOVC0S	1072682
		NO	Cable, 3-wire, 2 m	IMB08-04NNSVU2S	1072689
			Connector M8, 3-pin [1]	IMB08-04NNSVT0S	1072594
			Male connector M12, 4-pin [1]	IMB08-04NNSVC0S	1072681
	PNP	NC	Cable, 3-wire, 2 m	IMB08-04NPOVU2S	1072688
			Connector M8, 3-pin [1]	IMB08-04NPOVT0S	1072593
			Male connector M12, 4-pin [1]	IMB08-04NPOVC0S	1072678
Short-body	NPN	NC	Cable, 3-wire, 2 m	IMB08-04NNOVU2K	1072703
			Connector M8, 3-pin [1]	IMB08-04NNOVT0K	1072696
		NO	Cable, 3-wire, 2 m	IMB08-04NNSVU2K	1072702
			Connector M8, 3-pin [1]	IMB08-04NNSVT0K	1070169
	PNP	NC	Cable, 3-wire, 2 m	IMB08-04NPOVU2K	1072454
			Connector M8, 3-pin [1]	IMB08-04NPOVT0K	1072695

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **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
- **Switching output:** PNP
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 3-wire, 2 m	IMB08-04NPSVU2S	1072687
	Connector M8, 3-pin [1]	IMB08-04NPSVT0S	1072592
	Male connector M12, 4-pin [1]	IMB08-04NPSVC0S	1070170
Short-body	Cable, 3-wire, 2 m	IMB08-04NPSVU2K	1072701
	Connector M8, 3-pin [1]	IMB08-04NPSVT0K	1072694

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link	Connector M8, 3-pin [1]	IMB08-04NPSVT0SX02	1099568

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **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 against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin [1]	IMB08-02BPPVC0S	1074349

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **Cylindrical thread design:** M8
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire
- **Sensing range S_n:** 2 mm
- **Housing:** Standard design

Switching output	Output function	Special features	Connection type	Type	Part no.
NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin [1]	IMB08-02BNPVC0S	1074352

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **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 against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin [1]	IMB08-04NPPVC0S	1074350

[1] With gold plated contact pins.

- **Sub product family:** IMB08
- **Cylindrical thread design:** M8
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Sensing range S_n:** 4 mm
- **Housing:** Standard design

Switching output	Output function	Special features	Connection type	Type	Part no.
NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin [1]	IMB08-04NNPVC0S	1074353

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 4 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB12-04BDSVU2S	1074365
	Male connector M12, 4-pin [1]	IMB12-04BDSVC0S	1074364
Short-body	Cable, 2-wire, 2 m	IMB12-04BDSVU2K	1074368

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 8 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB12-08NDSVU2S	1076278
	Male connector M12, 4-pin [1]	IMB12-08NDSVC0S	1076277
Short-body	Cable, 2-wire, 2 m	IMB12-08NDSVU2K	1076281

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 4 mm
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Switching output	Output function	Connection type	Type	Part no.
Standard design	NPN	NC	Cable, 3-wire, 2 m	IMB12-04BNOVU2S	1072742
			Male connector M12, 4-pin [1]	IMB12-04BNOVC0S	1072738
		NO	Cable, 3-wire, 2 m	IMB12-04BNSVU2S	1072741
			Cable, 3-wire, 5 m	IMB12-04BNSVW5S	1119174
			Male connector M12, 4-pin [1]	IMB12-04BNSVC0S	1072737
	PNP	NC	Cable, 3-wire, 2 m	IMB12-04BPOVU2S	1072765
			Male connector M12, 4-pin [1]	IMB12-04BPOVC0SS08	1094698
			Cable with M12 male connector, 4-pin, 5 m	IMB12-04BPOVQ5S	1093327
			Male connector M12, 4-pin [1]	IMB12-04BPOVC0S	1072736
Short-body	NPN	NC	Cable, 3-wire, 2 m	IMB12-04BNOVU2K	1072757
			Male connector M12, 4-pin [1]	IMB12-04BNOVC0K	1072749
		NO	Cable, 3-wire, 2 m	IMB12-04BNSVU2K	1072756
			Male connector M12, 4-pin [1]	IMB12-04BNSVC0K	1070172
	PNP	NC	Cable, 3-wire, 2 m	IMB12-04BPOVU2K	1072755
			Male connector M12, 4-pin [1]	IMB12-04BPOVC0KS09	1094699
				IMB12-04BPOVC0K	1072748

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **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
- **Switching output:** PNP
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 3-wire, 2 m	IMB12-04BPSVU2S	1072455
	Cable, 3-wire, 5 m	IMB12-04BPSVW5S	1135969
	Male connector M12, 4-pin [1)]	IMB12-04BPSVC0S	1072763
Short-body	Cable, 3-wire, 2 m	IMB12-04BPSVU2K	1072754
	Male connector M12, 4-pin [1)]	IMB12-04BPSVC0K	1072747

[1)] With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **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.
NPN	NO	Resistant against coolant lubricants, Visual adjustment indicator	Male connector M12, 4-pin [1)]	IMB12-04BNSVC0SX01	1139244

[1)] With gold plated contact pins.

- **Sub product family:** IMB12
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link	Male connector M12, 4-pin [1)]	IMB12-04BPSVC0SX01	1099569

[1)] With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 8 mm
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Switching output	Output function	Connection type	Type	Part no.
Standard design	NPN	NC	Cable, 3-wire, 2 m	IMB12-08NNOVU2S	1072746
			Male connector M12, 4-pin [1]	IMB12-08NNOVC0S	1072740
		NO	Cable, 3-wire, 2 m	IMB12-08NNSVU2S	1072745
			Male connector M12, 4-pin [1]	IMB12-08NNSVC0S	1072764
	PNP	NC	Cable, 3-wire, 2 m	IMB12-08NPOVU2S	1072744
			Male connector M12, 4-pin [1]	IMB12-08NPOVC0S	1072739
Short-body	NPN	NC	Cable, 3-wire, 2 m	IMB12-08NNOVU2K	1072761
			Male connector M12, 4-pin [1]	IMB12-08NNOVC0K	1072753
		NO	Cable, 3-wire, 2 m	IMB12-08NNSVU2K	1072760
			Male connector M12, 4-pin [1]	IMB12-08NNSVC0K	1072752
	PNP	NC	Cable, 3-wire, 2 m	IMB12-08NPOVU2K	1072759
			Male connector M12, 4-pin [1]	IMB12-08NPOVC0KS20	1132991
			Cable with M12 male connector, 4-pin, 1 m	IMB12-08NPOVQ1K	1094349
			Male connector M12, 4-pin [1]	IMB12-08NPOVC0K	1072751

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **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
- **Switching output:** PNP
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 3-wire, 2 m	IMB12-08NPSVU2S	1072743
	Male connector M12, 4-pin [1]	IMB12-08NPSVC0S	1070171

[1] With gold plated contact pins.

Housing	Connection type	Type	Part no.
Short-body	Cable, 3-wire, 2.5 m	IMB12-08NPSVUDKS22	1137042
	Cable, 3-wire, 3.6 m	IMB12-08NPSVUDKS23	1137045
	Cable, 3-wire, 4.5 m	IMB12-08NPSVUDKS25	1139393
	Cable, 3-wire, 2 m	IMB12-08NPSVU2K	1072758
	Male connector M12, 4-pin [1]	IMB12-08NPSVC0KS21	1132992
		IMB12-08NPSVC0K	1072750

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link	Male connector M12, 4-pin [1]	IMB12-08NPSVC0SX02	1099570

[1] With gold plated contact pins.

- **Sub product family:** IMB12
- **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 against coolant lubricants, IO-Link, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB12-04BPPVC0S	1074359
Short-body	IMB12-04BPPVC0K	1074366

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire
- **Sensing range S_n:** 4 mm
- **Switching output:** NPN
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB12-04BNPVC0S	1074361
Short-body	IMB12-04BNPVC0K	1074367

- **Sub product family:** IMB12
- **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
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, IO-Link, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB12-08NPPVC0S	1074360
Short-body	IMB12-08NPPVC0K	1076279

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Sensing range S_n:** 8 mm
- **Switching output:** NPN
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB12-08NNPVC0S	1074362
Short-body	IMB12-08NNPVC0K	1076280

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 8 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB18-08BDSVU2S	1074374
	Male connector M12, 4-pin [1]	IMB18-08BDSVC0S	1074373
Short-body	Cable, 2-wire, 2 m	IMB18-08BDSVU2K	1074380

[1] With gold plated contact pins.

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 12 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB18-12NDSVU2S	1074375
	Male connector M12, 4-pin [1]	IMB18-12NDSVC0S	1076282
Short-body	Cable, 2-wire, 2 m	IMB18-12NDSVU2K	1076283

[1] With gold plated contact pins.

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 8 mm

Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
Standard design	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB18-08BNOVU2S	1072816
				Male connector M12, 4-pin [1]	IMB18-08BNOVC0S	1072809
		NO		Cable, 3-wire, 2 m	IMB18-08BNSVU2S	1072815
				Male connector M12, 4-pin [1]	IMB18-08BNSVC0S	1072808
			Temperature resistance	Cable, 3-wire, 10 m	IMB18-08BNSVU6S	1091032
	PNP	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB18-08BPOVU2S	1072814
				Male connector M12, 4-pin [1]	IMB18-08BPOVC0S	1072807
Short-body	NPN	NC		Cable, 3-wire, 2 m	IMB18-08BNOVU2K	1072830
				Male connector M12, 4-pin [1]	IMB18-08BNOVC0K	1072823
		NO		Cable, 3-wire, 2 m	IMB18-08BNSVU2K	1072829
				Male connector M12, 4-pin [1]	IMB18-08BNSVC0K	1070174
	PNP	NC		Cable, 3-wire, 2 m	IMB18-08BPOVU2K	1072456
				Male connector M12, 4-pin [1]	IMB18-08BPOVC0K	1072822

[1] With gold plated contact pins.

- **Sub product family:** IMB18
- **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
- **Switching output:** PNP
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 3-wire, 10 m	IMB18-08BPSVU6S	1086561
	Cable, 3-wire, 2 m	IMB18-08BPSVU2S	1072813
	Male connector M12, 4-pin, 5 m	IMB18-08BPSVQ5S	1097832
	Male connector M12, 4-pin [1]	IMB18-08BPSVC0S	1072806
Short-body	Cable, 3-wire, 2 m	IMB18-08BPSVU2K	1072828
	Male connector M12, 4-pin [1]	IMB18-08BPSVC0K	1072821

[1] With gold plated contact pins.

- **Sub product family:** IMB18
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link	Male connector M12, 4-pin [1]	IMB18-08BPSVC0SX01	1099571

[1] With gold plated contact pins.

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 12 mm
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Switching output	Output function	Connection type	Type	Part no.
Standard design	NPN	NC	Cable, 3-wire, 2 m	IMB18-12NNOVU2S	1072820
			Male connector M12, 4-pin [1]	IMB18-12NNOVC0S	1072812
		NO	Cable, 3-wire, 2 m	IMB18-12NNSVU2S	1072819
			Male connector M12, 4-pin [1]	IMB18-12NNSVC0S	1072811
	PNP	NC	Cable, 3-wire, 2 m	IMB18-12NPOVU2S	1072818
			Male connector M12, 4-pin [1]	IMB18-12NPOVC0S	1072810
Short-body	NPN	NC	Cable, 3-wire, 2 m	IMB18-12NNOVU2K	1072834
			Male connector M12, 4-pin [1]	IMB18-12NNOVC0K	1072827
		NO	Cable, 3-wire, 2 m	IMB18-12NNSVU2K	1072833
			Male connector M12, 4-pin [1]	IMB18-12NNSVC0K	1072826
	PNP	NC	Cable, 3-wire, 2 m	IMB18-12NPOVU2K	1072832
			Male connector M12, 4-pin [1]	IMB18-12NPOVC0K	1072825

[1] With gold plated contact pins.

- **Sub product family:** IMB18
- **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
- **Switching output:** PNP
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 3-wire, 2 m	IMB18-12NPSVU2S	1072817
	Male connector M12, 4-pin [1)]	IMB18-12NPSVC0S	1070173
Short-body	Cable, 3-wire, 2 m	IMB18-12NPSVU2K	1072831
	Male connector M12, 4-pin [1)]	IMB18-12NPSVC0K	1072824

[1)] With gold plated contact pins.

- **Sub product family:** IMB18
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link	Male connector M12, 4-pin [1)]	IMB18-12NPSVC0SX02	1099572

[1)] With gold plated contact pins.

- **Sub product family:** IMB18
- **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
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, IO-Link, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB18-08BPPVC0S	1074369
Short-body	IMB18-08BPPVC0K	1074376

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 4-wire
- **Sensing range S_n:** 8 mm
- **Switching output:** NPN
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB18-08BNPVC0S	1074371
Short-body	IMB18-08BNPVC0K	1074378

- **Sub product family:** IMB18
- **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
- **Switching output:** PNP
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, IO-Link, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB18-12NPPVC0S	1074370
Short-body	IMB18-12NPPVC0K	1074377

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire
- **Sensing range S_n:** 12 mm
- **Switching output:** NPN
- **Output function:** Complementary
- **Special features:** Resistant against coolant lubricants, Temperature resistance
- **Connection type:** male connector M12, 4-pin (With gold plated contact pins.)

Housing	Type	Part no.
Standard design	IMB18-12NNPVC0S	1074372
Short-body	IMB18-12NNPVC0K	1074379

- **Sub product family:** IMB30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 15 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB30-15BDSVU2S	1074413
	Male connector M12, 4-pin [1]	IMB30-15BDSVC0S	1074410
Short-body	Cable, 2-wire, 2 m	IMB30-15BDSVU2K	1074420

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **Cylindrical thread design:** M30
- **Installation type:** non-flush
- **Electrical wiring:** DC 2-wire
- **Sensing range S_n:** 20 mm
- **Output function:** NO
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Connection type	Type	Part no.
Standard design	Cable, 2-wire, 2 m	IMB30-20NDSVU2S	1074414
	Male connector M12, 4-pin [1]	IMB30-20NDSVC0S	1076291
Short-body	Cable, 2-wire, 2 m	IMB30-20NDSVU2K	1076284

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire
- **Sensing range S_n:** 15 mm
- **Special features:** Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance

Housing	Switching output	Output function	Connection type	Type	Part no.
Standard design	NPN	NC	Cable, 3-wire, 2 m	IMB30-15BNOVU2S	1072844
			Male connector M12, 4-pin [1]	IMB30-15BNOVC0S	1072837
		NO	Cable, 3-wire, 2 m	IMB30-15BNSVU2S	1072843
			Male connector M12, 4-pin [1]	IMB30-15BNSVC0S	1072836
	PNP	NC	Cable, 3-wire, 2 m	IMB30-15BPOVU2S	1072842
			Male connector M12, 4-pin [1]	IMB30-15BPOVC0S	1072835
Short-body	PNP	NC	Male connector M12, 4-pin [1]	IMB30-15BPOVC0K	1072849

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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	Switching output	Output function	Special features	Connection type	Type	Part no.
Standard design	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB30-15BPSVU2S	1072841
				Male connector M12, 4-pin [1]	IMB30-15BPSVC0S	1072602
Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB30-15BNOVU2K	1072858
				Male connector M12, 4-pin [1]	IMB30-15BNOVC0K	1072851
		NO		Cable, 3-wire, 2 m	IMB30-15BNSVU2K	1072857
				Male connector M12, 4-pin [1]	IMB30-15BNSVC0K	1072850
	PNP	NC		Cable, 3-wire, 2 m	IMB30-15BPOVU2K	1072856
		NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB30-15BPSVU2K	1072457
				Male connector M12, 4-pin [1]	IMB30-15BPSVC0K	1070176

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-15BPSVC0SX01	1099573

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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 against coolant lubricants, Visual adjustment indicator, Temperature resistance

Switching output	Output function	Connection type	Type	Part no.
NPN	NC	Cable, 3-wire, 2 m	IMB30-20NNOVU2S	1072848
		Male connector M12, 4-pin [1]	IMB30-20NNOVC0S	1072840
	NO	Cable, 3-wire, 2 m	IMB30-20NNSVU2S	1072847
		Male connector M12, 4-pin [1]	IMB30-20NNSVC0S	1070175
PNP	NC	Cable, 3-wire, 2 m	IMB30-20NPOVU2S	1072846
		Male connector M12, 4-pin [1]	IMB30-20NPOVC0S	1072839

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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	Switching output	Output function	Special features	Connection type	Type	Part no.
Standard design	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB30-20NPSVU2S	1072845
				Male connector M12, 4-pin [1]	IMB30-20NPSVC0S	1072838
Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB30-20NNOVU2K	1072862
				Male connector M12, 4-pin [1]	IMB30-20NNOVC0K	1072855
		NO		Cable, 3-wire, 2 m	IMB30-20NNSVU2K	1072861
				Male connector M12, 4-pin [1]	IMB30-20NNSVC0K	1072854
	PNP	NC		Cable, 3-wire, 2 m	IMB30-20NPOVU2K	1072860
				Male connector M12, 4-pin [1]	IMB30-20NPOVC0K	1072853
		NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB30-20NPSVU2K	1072859
				Male connector M12, 4-pin [1]	IMB30-20NPSVC0K	1072852

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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 against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-20NPSVC0SX02	1099574

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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
- **Output function:** Complementary

Housing	Switching output	Special features	Connection type	Type	Part no.
Standard design	NPN	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-15BNPVC0S	1074408
	PNP	Resistant against coolant lubricants, IO-Link, Temperature resistance	Cable, 4-wire, 10 m	IMB30-15BPPVU6S	1079160
			Cable, 4-wire, 2 m	IMB30-15BPPVU2S	1074415
			Male connector M12, 4-pin [1]	IMB30-15BPPVC0S	1074411
Short-body	NPN	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-15BNPVC0K	1074417
	PNP	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-15BPPVC0K	1074406

[1] With gold plated contact pins.

- **Sub product family:** IMB30
- **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
- **Output function:** Complementary

Housing	Switching output	Special features	Connection type	Type	Part no.
Standard design	NPN	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-20NNPVC0S	1074409
	PNP	Resistant against coolant lubricants, IO-Link, Temperature resistance	Cable, 4-wire, 10 m	IMB30-20NPPVU6S	1100478
			Male connector M12, 4-pin [1]	IMB30-20NPPVC0S	1074407
Short-body	NPN	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-20NNPVC0K	1074418
	PNP	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin [1]	IMB30-20NPPVC0K	1074416

[1] With gold plated contact pins.

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