



IMB

The rugged standard for use in harsh ambient conditions

INDUCTIVE PROXIMITY SENSORS

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
Diameter	Ø 8 mm ... Ø 30 mm (depending on type)
Sensing range S_n	1.5 mm ... 20 mm (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	Housing	Output function	Special features	Connection type	Type	Part no.
2 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB08-02BDSVU2K	1075585
				Cable, 2-wire, 5 m	IMB08-02BDSVU5K	1082062
				Connector M8, 3-pin ¹⁾	IMB08-02BDSVT0K	1075583
	Standard	NO		Cable, 2-wire, 2 m	IMB08-02BDSVU2S	1074354
				Connector M8, 3-pin ¹⁾	IMB08-02BDSVT0S	1074348

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	Housing	Output function	Special features	Connection type	Type	Part no.
4 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB08-04NDSVU2K	1075586
				Connector M8, 3-pin ¹⁾	IMB08-04NDSVT0K	1075584
	Standard	NO		Cable, 2-wire, 2 m	IMB08-04NDSVU2S	1074358
				Connector M8, 3-pin ¹⁾	IMB08-04NDSVT0S	1076276

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	Short-body	PNP	NO	Resistant against coolant lubricants, Temperature resistance	Cable, 3-wire, 3 m	IMB08-1B5PSVU3KS10	1110678
	Standard	PNP	NO		Cable, 3-wire, 3 m	IMB08-1B5PSVU3SS09	1110677

¹⁾ With gold plated contact pins.

Sensing range S_n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.		
2 mm	Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB08-02BNOVU2K	1072700		
					Connector M8, 3-pin ¹⁾	IMB08-02BNOVT0K	1072693		
					NO	Cable, 3-wire, 2 m	IMB08-02BNSVU2K	1072699	
			Cable, 3-wire, 5 m			IMB08-02BNSVU5K	1086821		
			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		Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Connector M8, 3-pin ¹⁾		IMB08-02BPSVT0KS07	1092109	
		Standard	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	
						NO	Male connector M12, 4-pin ¹⁾	IMB08-02BNOVC0S	1072676
							Cable, 3-wire, 2 m	IMB08-02BNSVU2S	1072685
				Cable, 3-wire, 5 m		IMB08-02BNSVU5S	1080663		
	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		
			NO	Cable, 3-wire, 2 m		IMB08-02BPOVU2S	1072684		
		Male connector M12, 4-pin ¹⁾		IMB08-02BPOVC0S	1072674				

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
2 mm	Short-body	PNP	NO	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, 2 m	IMB08-02BPSVU2K	1072697
						Cable, 3-wire, 5 m	IMB08-02BPSVU5K	1090949
						Connector M8, 3-pin ¹⁾	IMB08-02BPSVT0K	1072691
						Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IMB08-02BPSVR8K	1092111
	Standard	PNP	NO		Cable, 3-wire, 2 m	IMB08-02BPSVU2S	1072683	
					Cable, 3-wire, 5 m	IMB08-02BPSVU5S	1089658	
					Connector M8, 3-pin ¹⁾	IMB08-02BPSVT0S	1070168	
					Male connector M12, 4-pin ¹⁾	IMB08-02BPSVC0S	1072673	

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 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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
2 mm	Standard	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
4 mm	Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB08-04NNOVU2K	1072703	
			NO		Connector M8, 3-pin ¹⁾	IMB08-04NNOVTOK	1072696	
		PNP	NC		Cable, 3-wire, 2 m	IMB08-04NNSVU2K	1072702	
			NO		Connector M8, 3-pin ¹⁾	IMB08-04NNSVTOK	1070169	
		Standard	NPN		NC	Cable, 3-wire, 2 m	IMB08-04NPOVU2K	1072454
						NO	Connector M8, 3-pin ¹⁾	IMB08-04NPOVTOK
	NO				Cable, 3-wire, 2 m	IMB08-04NNOVU2S	1072690	
					Connector M8, 3-pin ¹⁾	IMB08-04NNOVTOS	1072671	
					Male connector M12, 4-pin ¹⁾	IMB08-04NNOVCOS	1072682	
					Cable, 3-wire, 2 m	IMB08-04NNSVU2S	1072689	
	PNP		NC		Connector M8, 3-pin ¹⁾	IMB08-04NNSVTOS	1072594	
					Male connector M12, 4-pin ¹⁾	IMB08-04NNSVCOS	1072681	
			NO		Cable, 3-wire, 2 m	IMB08-04NPOVU2S	1072688	
					Connector M8, 3-pin ¹⁾	IMB08-04NPOVTOS	1072593	
					Male connector M12, 4-pin ¹⁾	IMB08-04NPOVCOS	1072678	

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Short-body	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB08-04NPSVU2K	1072701
					Connector M8, 3-pin ¹⁾	IMB08-04NPSVT0K	1072694
	Standard	PNP	NO		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

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 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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Standard	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
2 mm	Standard	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
2 mm	Standard	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB08-02BNPVCOS	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Standard	PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB08-04NPPVCOS	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Standard	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB08-04NNPVCOS	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	Housing	Output function	Special features	Connection type	Type	Part no.
4 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB12-04BDSVU2K	1074368
	Standard	NO		Cable, 2-wire, 2 m	IMB12-04BDSVU2S	1074365
				Male connector M12, 4-pin ¹⁾	IMB12-04BDSVCOS	1074364

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	Housing	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB12-08NDSVU2K	1076281
	Standard	NO		Cable, 2-wire, 2 m	IMB12-08NDSVU2S	1076278
				Male connector M12, 4-pin ¹⁾	IMB12-08NDSVCOS	1076277

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
4 mm	Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB12-04BNOVU2K	1072757	
					Male connector M12, 4-pin ¹⁾	IMB12-04BNOVCOK	1072749	
			NO		Cable, 3-wire, 2 m	IMB12-04BNSVU2K	1072756	
					Male connector M12, 4-pin ¹⁾	IMB12-04BNSVCOK	1070172	
		PNP	NC		Cable, 3-wire, 2 m	IMB12-04BPOVU2K	1072755	
					Male connector M12, 4-pin ¹⁾	IMB12-04BPOVCOK	1072748	
						IMB12-04BPOVCOKS09	1094699	
		Standard	NPN		NC	Cable, 3-wire, 2 m	IMB12-04BNOVU2S	1072742
						Male connector M12, 4-pin ¹⁾	IMB12-04BNOVCOS	1072738
					NO	Cable, 3-wire, 2 m	IMB12-04BNSVU2S	1072741
	Cable, 3-wire, 5 m			IMB12-04BNSVW5S		1119174		
	Male connector M12, 4-pin ¹⁾			IMB12-04BNSVCOS		1072737		
	PNP		NC	Cable, 3-wire, 2 m	IMB12-04BPOVU2S	1072765		
				Male connector M12, 4-pin ¹⁾	IMB12-04BPOVCOS	1072736		
					IMB12-04BPOVCOS08	1094698		
			Cable with M12 male connector, 4-pin, 5 m	IMB12-04BPOVQ5S	1093327			

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Short-body	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB12-04BPSVU2K	1072754
					Male connector M12, 4-pin ¹⁾	IMB12-04BPSVC0K	1072747
	Standard	PNP	NO		Cable, 3-wire, 2 m	IMB12-04BPSVU2S	1072455
					Male connector M12, 4-pin ¹⁾	IMB12-04BPSVC0S	1072763

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 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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Standard	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB12-08NNOVU2K	1072761
					Male connector M12, 4-pin ¹⁾	IMB12-08NNOVCOK	1072753
			NO		Cable, 3-wire, 2 m	IMB12-08NNSVU2K	1072760
					Male connector M12, 4-pin ¹⁾	IMB12-08NNSVCOK	1072752
		PNP	NC		Cable, 3-wire, 2 m	IMB12-08NPOVU2K	1072759
					Male connector M12, 4-pin ¹⁾	IMB12-08NPOVCOK	1072751
			NC		Cable with M12 male connector, 4-pin, 1 m	IMB12-08NPOVQ1K	1094349
	Standard	NPN	NC	Cable, 3-wire, 2 m	IMB12-08NNOVU2S	1072746	
				Male connector M12, 4-pin ¹⁾	IMB12-08NNOVCOS	1072740	
			NO	Cable, 3-wire, 2 m	IMB12-08NNSVU2S	1072745	
				Male connector M12, 4-pin ¹⁾	IMB12-08NNSVCOS	1072764	
		PNP	NC	Cable, 3-wire, 2 m	IMB12-08NPOVU2S	1072744	
				Male connector M12, 4-pin ¹⁾	IMB12-08NPOVCOS	1072739	

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB12-08NPSVU2K	1072758
					Male connector M12, 4-pin ¹⁾	IMB12-08NPSVC0K	1072750
	Standard	PNP	NO		Cable, 3-wire, 2 m	IMB12-08NPSVU2S	1072743
					Male connector M12, 4-pin ¹⁾	IMB12-08NPSVC0S	1070171

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 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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Standard	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Short-body	PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB12-04BPPVC0K	1074366
	Standard	PNP	Complementary		Male connector M12, 4-pin ¹⁾	IMB12-04BPPVC0S	1074359

¹⁾ With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire

Sensing range S _n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
4 mm	Short-body	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB12-04BNPVCOK	1074367
	Standard	NPN	Complementary		Male connector M12, 4-pin ¹⁾	IMB12-04BNPVCOS	1074361

¹⁾ With gold plated contact pins.

- **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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB12-08NPPVCOK	1076279
	Standard	PNP	Complementary		Male connector M12, 4-pin ¹⁾	IMB12-08NPPVCOS	1074360

¹⁾ With gold plated contact pins.

- **Sub product family:** IMB12
- **Cylindrical thread design:** M12
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire

Sensing range S _n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB12-08NNPVCOK	1076280
	Standard	NPN	Complementary		Male connector M12, 4-pin ¹⁾	IMB12-08NNPVCOS	1074362

¹⁾ With gold plated contact pins.

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 2-wire

Sensing range S_n	Housing	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB18-08BDSVU2K	1074380
	Standard	NO		Cable, 2-wire, 2 m	IMB18-08BDSVU2S	1074374
				Male connector M12, 4-pin ¹⁾	IMB18-08BDSVCOS	1074373

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	Housing	Output function	Special features	Connection type	Type	Part no.
12 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB18-12NDSVU2K	1076283
	Standard	NO		Cable, 2-wire, 2 m	IMB18-12NDSVU2S	1074375
				Male connector M12, 4-pin ¹⁾	IMB18-12NDSVCOS	1076282

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.		
8 mm	Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB18-08BNOVU2K	1072830		
					Male connector M12, 4-pin ¹⁾	IMB18-08BNOVCOK	1072823		
			NO		Cable, 3-wire, 2 m	IMB18-08BNSVU2K	1072829		
					Male connector M12, 4-pin ¹⁾	IMB18-08BNSVCOK	1070174		
		PNP	NC		Cable, 3-wire, 2 m	IMB18-08BPOVU2K	1072456		
					Male connector M12, 4-pin ¹⁾	IMB18-08BPOVCOK	1072822		
		Standard	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		
	PNP		NC	Temperature resistance	Cable, 3-wire, 10 m		IMB18-08BNSVU6S	1091032	
					Cable, 3-wire, 2 m		IMB18-08BPOVU2S	1072814	
			NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Male connector M12, 4-pin ¹⁾		IMB18-08BPOVC0S	1072807	

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB18-08BPSVU2K	1072828
					Male connector M12, 4-pin ¹⁾	IMB18-08BPSVC0K	1072821
	Standard	PNP	NO		Cable, 3-wire, 2 m	IMB18-08BPSVU2S	1072813
					Cable, 3-wire, 10 m	IMB18-08BPSVU6S	1086561
					Male connector M12, 4-pin ¹⁾	IMB18-08BPSVC0S	1072806
					Male connector M12, 4-pin, 5 m	IMB18-08BPSVQ5S	1097832

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 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, datocode, serial number).

Sensing range S_n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Standard	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
12 mm	Short-body	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB18-12NNOVU2K	1072834	
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NNOVCOK	1072827	
		PNP	NC		Cable, 3-wire, 2 m	IMB18-12NNSVU2K	1072833	
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NNSVCOK	1072826	
		Standard	NPN		NC	Cable, 3-wire, 2 m	IMB18-12NPOVU2K	1072832
					NO	Male connector M12, 4-pin ¹⁾	IMB18-12NPOVCOK	1072825
	PNP		NC		Cable, 3-wire, 2 m	IMB18-12NNOVU2S	1072820	
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NNOVCOS	1072812	
	PNP		NC		Cable, 3-wire, 2 m	IMB18-12NNSVU2S	1072819	
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NNSVCOS	1072811	
			NC		Cable, 3-wire, 2 m	IMB18-12NPOVU2S	1072818	
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NPOVCOS	1072810	

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
12 mm	Short-body	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Cable, 3-wire, 2 m	IMB18-12NPSVU2K	1072831
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NPSVCOK	1072824
	Standard	PNP	NO		Cable, 3-wire, 2 m	IMB18-12NPSVU2S	1072817
			NO		Male connector M12, 4-pin ¹⁾	IMB18-12NPSVCOS	1070173

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 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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
12 mm	Standard	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link	Male connector M12, 4-pin ¹⁾	IMB18-12NPSVCOSX02	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB18-08BPPVCOK	1074376
	Standard	PNP	Complementary		Male connector M12, 4-pin ¹⁾	IMB18-08BPPVCOS	1074369

¹⁾ With gold plated contact pins.

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 4-wire

Sensing range S_n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
8 mm	Short-body	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB18-08BNPVCOK	1074378
	Standard	NPN	Complementary		Male connector M12, 4-pin ¹⁾	IMB18-08BNPVCOS	1074371

¹⁾ With gold plated contact pins.

- **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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
12 mm	Short-body	PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB18-12NPPVCOK	1074377
	Standard	PNP	Complementary		Male connector M12, 4-pin ¹⁾	IMB18-12NPPVCOS	1074370

¹⁾ With gold plated contact pins.

- **Sub product family:** IMB18
- **Cylindrical thread design:** M18
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire

Sensing range S _n	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
12 mm	Short-body	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB18-12NNPVCOK	1074379
	Standard	NPN	Complementary		Male connector M12, 4-pin ¹⁾	IMB18-12NNPVCOS	1074372

¹⁾ With gold plated contact pins.

- **Sub product family:** IMB30
- **Cylindrical thread design:** M30
- **Installation type:** flush
- **Electrical wiring:** DC 2-wire

Sensing range S _n	Housing	Output function	Special features	Connection type	Type	Part no.
15 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB30-15BDSVU2K	1074420
	Standard	NO		Cable, 2-wire, 2 m	IMB30-15BDSVU2S	1074413
				Male connector M12, 4-pin ¹⁾	IMB30-15BDSVCOS	1074410

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	Housing	Output function	Special features	Connection type	Type	Part no.
20 mm	Short-body	NO	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 2-wire, 2 m	IMB30-20NDSVU2K	1076284
	Standard	NO		Cable, 2-wire, 2 m	IMB30-20NDSVU2S	1074414
				Male connector M12, 4-pin ¹⁾	IMB30-20NDSVCOS	1076291

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
15 mm	Short-body	PNP	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB30-15BPOVC0K	1072849
					Cable, 3-wire, 2 m	IMB30-15BNOVU2S	1072844
	Standard	NPN	NC		Male connector M12, 4-pin ¹⁾	IMB30-15BNOVC0S	1072837
					Cable, 3-wire, 2 m	IMB30-15BNSVU2S	1072843
			NO		Male connector M12, 4-pin ¹⁾	IMB30-15BNSVC0S	1072836
					Cable, 3-wire, 2 m	IMB30-15BPOVU2S	1072842
	PNP	NC	Male connector M12, 4-pin ¹⁾		IMB30-15BPOVC0S	1072835	

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
15 mm	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	Cable, 3-wire, 2 m	IMB30-15BPSVU2K
	Standard	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾		IMB30-15BPSVC0K	1070176
					Cable, 3-wire, 2 m	IMB30-15BPSVU2S	1072841	
					Male connector M12, 4-pin ¹⁾	IMB30-15BPSVC0S	1072602	

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 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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
15 mm	Standard	PNP	NO	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB30-15BPSVCOSX01	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
20 mm	Standard	NPN	NC	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	Cable, 3-wire, 2 m	IMB30-20NNOVU2S	1072848
					Male connector M12, 4-pin ¹⁾	IMB30-20NNOVCOS	1072840
			NO		Cable, 3-wire, 2 m	IMB30-20NNSVU2S	1072847
					Male connector M12, 4-pin ¹⁾	IMB30-20NNSVCOS	1070175
		PNP	NC		Cable, 3-wire, 2 m	IMB30-20NPOVU2S	1072846
					Male connector M12, 4-pin ¹⁾	IMB30-20NPOVCOS	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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
20 mm	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			
	Standard	PNP		NO	Cable, 3-wire, 2 m	IMB30-20NPSVU2S	1072845
			Male connector M12, 4-pin ¹⁾		IMB30-20NPSVC0S	1072838	

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

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	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
20 mm	Short-body	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB30-20NNPVCOK	1074418
		PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB30-20NPPVCOK	1074416
	Standard	NPN	Complementary	Resistant against coolant lubricants, Temperature resistance	Male connector M12, 4-pin ¹⁾	IMB30-20NNPVCOS	1074409
		PNP	Complementary	Resistant against coolant lubricants, IO-Link, Temperature resistance	Cable, 4-wire, 10 m	IMB30-20NPPVU6S	1100478
					Male connector M12, 4-pin ¹⁾	IMB30-20NPPVCOS	1074407

¹⁾ With gold plated contact pins.

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