



# IMM

Miniature sensors for industrial applications

**INDUCTIVE PROXIMITY SENSORS**

**SICK**  
Sensor Intelligence.

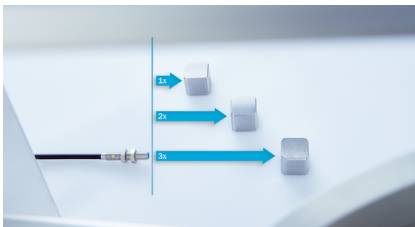
## Advantages



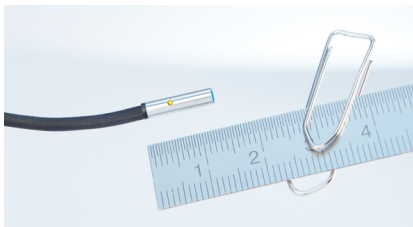
## Maximum sensing ranges for great freedom in machine design

Minimal space requirements thanks to the tiny dimensions are what characterize the IMM miniature sensors from SICK. And they make no compromises when it comes to performance. With their large sensing ranges of up to 6 mm, they IMM ensure stable processes and detect objects from a safe distance. The combination of a large sensing range and minimal space requirements increases freedom for machine design as well as the field of application of the sensors. This means not only can non-ferrous metals be detected at long distances, but the sensors can also be used where currently only larger sensors are deployed due to the required sensing ranges.

## Perfectly suited for applications with tight installation space but high standards on the sensing range.



Thanks to the threefold sensing ranges of up to 6 mm, the IMM sensors detect every object from a safe distance.



The smallest IMM sensors are only 12 mm long and have a diameter of just 3 mm: This is how IMM sensors can fit in such small installation spaces.



Minimum space requirements of the sensors in the M8 and M12 sizes without compromises in the sensing range.



**Stable processes and high flexibility in machine design thanks to large sensing ranges and compact miniature design**



## Fast, easy and safe installation

With IMM sensors, you save valuable time when installing the sensors, thereby increasing your productivity. Thanks to the visual adjustment indicator, you have a simple way to ensure reliable sensor function during operation. The high tightening torques and the specially-designed mounting accessories facilitate sensor mounting and ensure permanent and secure assembly. In addition, the IMM are equipped with IO-Link version 1.1. In addition to simple sensor diagnostics and easy access to data, this also supports the assembly process. Device exchange and identification therefore only takes a few seconds, and considerably less wiring work is required thanks to integration into the PLC system via remote IO-Link master modules.

## Huge time savings during installation thanks to additional functions and accessories



Visual adjustment indicator: the LED signalizes when the secured sensing range has been reached.



Reinforced V2A housing for high tightening torques as well as associated mounting accessories make mounting even easier and more secure.



IO-Link: simple device exchange and quick device identification, minimal wiring effort and easy sensor diagnostics as well as easy access to data.

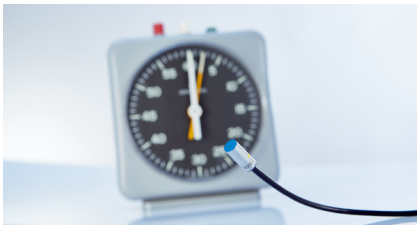


**Thanks to the visual adjustment indicator, IO-Link as well as the associated accessories, installation of IMM sensors is quick and easy.**



**The best choice for highly dynamic handling and assembly processes**

In addition to the compact size, the high positioning accuracy and precise switching behavior are the most significant requirements in handling and assembly processes. The IMM sensors with high switching frequency, high repeatability and stable switching signals fulfill these requirements unconditionally. While large sensors often reach their limits with very small objects, IMM devices reliably detect even small objects and are therefore optimally suited for the detection of the tiniest components in supply processes. The low weight of the sensors enables fast acceleration of moving components. A flexible cable is also available on request, which means that highly dynamic processes with several movement cycles per day are no longer a challenge.



High positioning accuracy and precise switching behavior for reliable detection of fast processes.



High detection sensitivity makes possible the detection of small objects such as wires, nuts and screws.



The low weight and flexible cables enable fast acceleration and high bending stresses in dynamic handling processes (flexible cable available on request).



**IMM sensors are perfectly designed for handling and assembly applications**



### Technical data overview

<b>Housing</b>	Cylindrical smooth housing / Cylindrical thread design (depending on type) (depending on type)
<b>Thread size</b>	M4 x 0.5 M5 x 0.5 (depending on type)
<b>Diameter</b>	Ø 3 mm ... Ø 6.5 mm (depending on type) (depending on type)
<b>Sensing range <math>S_n</math></b>	0.6 mm ... 6 mm (depending on type) (depending on type)
<b>Housing material</b>	Stainless steel V2A
<b>Enclosure rating</b>	IP68 / IP69K / IP67 (depending on type) (depending on type)

### Product description

Minimal space requirements paired with maximum performance characterize the IMM inductive proximity sensors. They allow the highest level of miniaturization without compromise. Thanks to the 3-fold sensing range up to 6 mm, IMM devices detect objects from a greater distance than before. Due to their small size, low weight and quick and precise switching behavior, the IMM sensors are ideal for highly dynamic handling and assembly processes. State-of-the-art ASIC technology enables the integration of a visual adjustment indicator as well as communication via IO-Link, version 1.1. This saves time for commissioning, reduces installation errors and turns the sensors into suppliers of data for future automation applications at the same time.

### At a glance

- Design: M4 to M5, diameter: 3 mm to 6.5 mm
- Extended sensing ranges: 0.6 mm to 6 mm
- Electrical configuration: DC, 3-wire
- Enclosure rating: IP67
- Temperature range: -25 °C bis +70 °C
- Rugged stainless-steel housing, plastic sensing face
- 3-fold sensing ranges, visual adjustment indicator, IO-Link communication

### Your benefits

- Space-saving installation and significant flexibility in machine design thanks to the compact size
- High positioning accuracy and precise switching behavior for reliable detection of fast handling and assembly processes
- Stable processes and high plant availability thanks to 3-fold sensing range
- High detection sensitivity makes possible reliable detection of small objects
- High degree of flexibility and communication options thanks to IO-Link
- Simple mounting thanks to visual adjustment indicator
- The low weight of the sensor enables fast acceleration in dynamic handling processes
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### Fields of application

- Handling, assembly processes: positioning
- Supply processes: detecting tiny components, counting
- Small waves: speed monitoring, direction of movement detection
- Gripper: position detection (gripper open or closed)
- Linear or rotating gripper: positioning
- CNC workpiece changer and spindles: position detection

Ordering information

Other models and accessories → [www.sick.com/IMM](http://www.sick.com/IMM)

- **Sub product family:** IH03
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range S <sub>n</sub>	Housing	Switching output	Output function	Connection type	Type	Part no.
0.6 mm	Standard design	NPN	NO	Cable, 3-wire, 2 m	IH03-0B6NS-VU1	6020142
		PNP	NC	Cable, 3-wire, 2 m	IH03-0B6PO-VU1	6020143
			NO	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IH03-0B6PS-VR1	6038602
				Cable, 3-wire, 2 m	IH03-0B6PS-VU1	6020141
		Cable, 3-wire, 5 m	IH03-0B6PS-VUB	6020630		
0.8 mm	Short-body	NPN	NO	Cable, 3-wire, 2 m <sup>1)</sup>	IHP03-0B8NSVU2K	6058032
		PNP	NO	Cable, 3-wire, 2 m <sup>1)</sup>	IHP03-0B8PSVU2K	6058033
1 mm	Short-body	NPN	NO	Cable with connector M8, 3-pin, 0.2 m <sup>1)</sup>	IH03-01BNSVR8K	6058026
				Cable, 3-wire, 2 m <sup>1)</sup>	IH03-01BNSVU2K	6058024
		PNP	NO	Cable with connector M8, 3-pin, 0.2 m <sup>1)</sup>	IH03-01BPSVR8K	6058027
				Cable, 3-wire, 2 m <sup>1)</sup>	IH03-01BPSVU2K	6058025

<sup>1)</sup> Do not bend below 0 °C.

- **Sub product family:** IM04
- **Cylindrical thread design:** M4
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Housing	Switching output	Output function	Connection type	Type	Part no.
0.6 mm	Standard design	NPN	NO	Cable, 3-wire, 2 m <sup>1)</sup>	IM04-0B6NS-ZU1	6020146
				Cable, 3-wire, 2 m <sup>1)</sup>	IM04-0B6PO-ZU1	6020147
		PNP	NO	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m <sup>1)</sup>	IM04-0B6PS-ZR1	6042085
				Cable, 3-wire, 2 m <sup>1)</sup>	IM04-0B6PS-ZU1	6020145
				Cable, 3-wire, 5 m <sup>1)</sup>	IM04-0B6PS-ZUB	6020610
1 mm	Short-body	NPN	NO	Cable with connector M8, 3-pin, 0.2 m <sup>1)</sup>	IM04-01BNSVR8K	6058030
				Cable, 3-wire, 2 m <sup>1)</sup>	IM04-01BNSVU2K	6058028
		PNP	NO	Cable with connector M8, 3-pin, 0.2 m <sup>1)</sup>	IM04-01BPSVR8K	6058031
				Cable, 3-wire, 2 m <sup>1)</sup>	IM04-01BPSVU2K	6058029

<sup>1)</sup> Do not bend below 0 °C.

- **Sub product family:** IH04
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Housing	Switching output	Output function	Connection type	Type	Part no.
0.8 mm	Standard design	NPN	NO	Cable, 3-wire, 2 m	IH04-0B8NS-VW1	6020149
				Connector M8, 3-pin	IH04-0B8NS-VT1	6020152
		PNP	NO	Cable with connector M8, 3-pin, 0.2 m	IH04-0B8PS-VR1	6045178
				Cable, 3-wire, 2 m	IH04-0B8PS-VW1	6020113
				Cable, 3-wire, 85 mm	IH04-0B8PS-VUD	6054677
				Connector M8, 3-pin	IH04-0B8PS-VT1	6020114

- **Sub product family:** IM05
- **Cylindrical thread design:** M5
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range S <sub>n</sub>	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.		
0.8 mm	Standard design	NPN	NC	-	Cable, 3-wire, 2 m	IM05-0B8NO-ZW1	6020157		
			NO	-	Cable, 3-wire, 2 m	IM05-0B8NS-ZW1	6020155		
				-	Connector M8, 3-pin	IM05-0B8NS-ZT1	6020158		
			-	Temperature resistance	Cable, 3-wire, 2 m	IM05-0B8NSVS2SS01	6066461		
		PNP	NC	-	Connector M8, 3-pin	IM05-0B8PO-ZT1	6020159		
			NO	-	Cable, 3-wire, 2 m	IM05-0B8PS-ZW1	6011591		
				-	Cable, 3-wire, 5 m	IM05-0B8PS-ZWB	6021575		
				-	Connector M8, 3-pin	IM05-0B8PS-ZT1	6020110		
		1.5 mm	Standard design	NPN	NC	-	Cable, 3-wire, 2 m	IM05-1B5NOVU2S	6049734
						-	Connector M8, 3-pin	IM05-1B5NOVT0S	6049738
NO	-				Cable, 3-wire, 2 m	IM05-1B5NSVU2S	6049733		
	-				Connector M8, 3-pin	IM05-1B5NSVT0S	6049737		
PNP	NC			-	Cable, 3-wire, 2 m	IM05-1B5POVU2S	6049736		
				-	Connector M8, 3-pin	IM05-1B5POVT0S	6049740		
	NO			-	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IM05-1B5PSVR8S	6069347		
				-	Cable with connector M8, 3-pin, with knurled nuts, 0.3 m	IM05-1B5PSVR9S	6069466		
-	Cable, 3-wire, 2 m			IM05-1B5PSVU2S	6049735				
-	Connector M8, 3-pin			IM05-1B5PSVT0S	6049739				



- **Sub product family:** IH06
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range S <sub>n</sub>	Housing	Switching output	Output function	Connection type	Type	Part no.
1.5 mm	Ultrashort	NPN	NO	Cable, 3-wire, 2 m	IH06-1B5NS-VWK	6020166
				Connector M8, 3-pin	IH06-1B5NS-VTK	6020170
		PNP	NC	Cable, 3-wire, 2 m	IH06-1B5PO-VWK	6020167
				Connector M8, 3-pin	IH06-1B5PO-VTK	6020171
			NO	Cable, 3-wire, 2 m	IH06-1B5PS-VWK	6020165
				IH06-1B5PS-VWXS01	6033574	
		Connector M8, 3-pin	IH06-1B5PS-VTK	6020169		
		2 mm	Standard design	PNP	NO	Connector M8, 3-pin

- **Sub product family:** IH06
- **Installation type:** quasi-flush
- **Electrical wiring:** DC 3-wire

Sensing range S <sub>n</sub>	Housing	Switching output	Output function	Connection type	Type	Part no.
2 mm	Standard design	NPN	NO	Cable, 3-wire, 2 m	IH06-02BNS-VW1	7900178
				Connector M8, 3-pin	IH06-02BNS-VT1	7900180
		PNP	NC	Connector M8, 3-pin	IH06-02BPO-VT1	1016857
				NO	Cable, 3-wire, 2 m	IH06-02BPS-VW1
		Connector M8, 3-pin	IH06-02BPS-VT1		7900179	
		Short-body	NPN	NO	Cable, 3-wire, 2 m	IH06-02BNS-VWK
	Connector M8, 3-pin				IH06-02BNS-VTK	6025878
	PNP		NC	Connector M8, 3-pin	IH06-02BPO-VTK	6025879
				NO	Cable, 3-wire, 2 m	IH06-02BPS-VWK
	Connector M8, 3-pin		IH06-02BPS-VTK		6025877	

- **Sub product family:** IH06
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Housing	Switching output	Output function	Connection type	Type	Part no.
4 mm	Standard design	NPN	NO	Cable, 3-wire, 2 m	IH06-04NNS-VW1	7900182
				Cable, 3-wire, 2 m	IH06-04NPS-VW1	7900181
		Connector M8, 3-pin	IH06-04NPS-VT1	7900183		
	Short-body	NPN	NO	Cable, 3-wire, 2 m	IH06-04NNS-VWK	6025881
				Connector M8, 3-pin	IH06-04NNS-VTK	6025883
		PNP	NC	Connector M8, 3-pin	IH06-04NPO-VTK	6025884
				Cable, 3-wire, 2 m	IH06-04NPS-VWK	6025880
			Connector M8, 3-pin	IH06-04NPS-VTK	6025882	

- **Sub product family:** IHM03
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
0.6 mm	Standard design	NPN	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM03-0B6NOVU2S	1114508
			NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM03-0B6NSVU2S	1103991
		PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM03-0B6POVU2S	1111250
			NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IHM03-0B6PSVR8S	1108736
	Cable, 3-wire, 2 m	IHM03-0B6PSVU2S	1102476				
		IHM03-1B5NSVU2S	1103993				
1.5 mm	Standard design	NPN	NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IHM03-1B5NSVU2S	1103993
		PNP	NO	Visual adjustment indicator, IO-Link, triple sensing range	Cable, 3-wire, 2 m	IHM03-1B5PSVU2S	1103564
	Short-body	NPN	NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IHM03-1B5NSVU2K	1103990
		PNP	NO	Visual adjustment indicator, IO-Link, triple sensing range	Cable, 3-wire, 2 m	IHM03-1B5PSVU2K	1108725

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
1 mm	Standard design	PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM03-01BPOVU2S	1111251	
			NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IHM03-01BPSVR8S	1108737	
						Cable, 3-wire, 2 m	IHM03-01BPSVU2S	1097305
	Short-body	NPN	NO	Visual adjustment indicator		Cable with connector M8, 3-pin, 0.2 m	IHM03-01BNSVR8K	1114531
						Cable, 3-wire, 2 m	IHM03-01BNSVU2K	1111030
		PNP	NO	Visual adjustment indicator, IO-Link		Cable with connector M8, 3-pin, 0.2 m	IHM03-01BPSVR8K	1108735
						Cable, 3-wire, 2 m	IHM03-01BPSVU2K	1101607

- **Sub product family:** IMM04
- **Cylindrical thread design:** M4
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
0.6 mm	Standard design	NPN	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM04-0B6NOVU2S	1114510	
			NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM04-0B6NSVU2S	1114509	
		PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM04-0B6POVU2S	1111252	
			NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IMM04-0B6PSVR8S	1108739	
					Cable, 3-wire, 2 m	IMM04-0B6PSVU2S	1103630	
		1.5 mm	Standard design	NPN	NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IMM04-1B5NSVU2S
PNP	NO							
				Short-body	NPN	NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m
PNP	NO							

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
1 mm	Standard design	NPN	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM04-01BNSVU2S	1105618
		PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM04-01BPOVU2S	1111253
			NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IMM04-01BPSVR8S	1108740
		Short-body	NPN	NO	Visual adjustment indicator	Cable with connector M8, 3-pin, 0.2 m	IMM04-01BNSVR8K
	Cable, 3-wire, 2 m			IMM04-01BNSVU2K	1103233		
	PNP		NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IMM04-01BPSVR8K	1108738
			Cable, 3-wire, 2 m	IMM04-01BPSVU2K	1101614		

- **Sub product family:** IHM04
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
0.8 mm	Standard design	NPN	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM04-0B8NSVU2S	1105839
					Connector M8, 3-pin	IHM04-0B8NSVT0S	1107983
		PNP	NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM04-0B8POVU2S	1114512
					Cable with connector M8, 3-pin, 0.2 m	IHM04-0B8PSVR8S	1107732
					Cable, 3-wire, 2 m	IHM04-0B8PSVU2S	1101824
		Connector M8, 3-pin	IHM04-0B8PSVT0S	1103977			

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
1.5 mm	Standard design	NPN	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM04-1B5NSVU2S	1101903
					Connector M8, 3-pin	IHM04-1B5NSVT0S	1107920
		PNP	NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IHM04-1B5PSVR8S	1108728
					Cable, 3-wire, 2 m	IHM04-1B5PSVU2S	1096869
	Short-body	NPN	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM04-1B5NSVU2K	1103992
					PNP	NO	Visual adjustment indicator, IO-Link
	Cable, 3-wire, 2 m	IHM04-1B5PSVU2K	1101608				
	2.5 mm	Standard design	NPN	NO	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM04-2B5NSVT0S
PNP						NO	Visual adjustment indicator, IO-Link, triple sensing range
			Cable, 3-wire, 2 m	IHM04-2B5PSVU2S	1103551		
Connector M8, 3-pin			IHM04-2B5PSVT0S	1108724			
Short-body		NPN	NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IHM04-2B5NSVU2K	1108013
					PNP	NO	Visual adjustment indicator, IO-Link, triple sensing range
		Cable, 3-wire, 2 m	IHM04-2B5PSVU2K	1103550			

- **Sub product family:** IMM05
- **Cylindrical thread design:** M5
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range S <sub>n</sub>	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
0.8 mm	Standard design	NPN	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM05-0B8NOVU2S	1114516
					Connector M8, 3-pin	IMM05-0B8NOVT0S	1114523
			NO	Visual adjustment indicator	Cable with connector M8, 3-pin, 0.2 m	IMM05-0B8NSVR8S	1108732
					Cable, 3-wire, 2 m	IMM05-0B8NSVU2S	1103634
					Connector M8, 3-pin	IMM05-0B8NSVT0S	1114520
					Cable, 3-wire, 2 m	IMM05-0B8POVU2S	1114515
		PNP	NC	Visual adjustment indicator	Connector M8, 3-pin	IMM05-0B8POVT0S	1111255
					Cable with connector M8, 3-pin, 0.2 m	IMM05-0B8PSVR8S	1111249
			NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IMM05-0B8PSVU2S	1101831
					Connector M8, 3-pin	IMM05-0B8PSVT0S	1103984

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
1.5 mm	Standard design	NPN	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM05-1B5NOVU2S	1114518
					Connector M8, 3-pin	IMM05-1B5NOVT0S	1114527
		NO	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM05-1B5NSVU2S	1101904
					Connector M8, 3-pin	IMM05-1B5NSVT0S	1114526
		PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM05-1B5POVU2S	1111254
					IMM05-1B5POVU2SS02	1119900	
					Connector M8, 3-pin	IMM05-1B5POVT0S	1111256
		NO	NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IMM05-1B5PSVR8S	1108733
					Cable, 3-wire, 2 m	IMM05-1B5PSVU2S	1101013
					Connector M8, 3-pin	IMM05-1B5PSVT0S	1101611
	Short-body	NPN	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IMM05-1B5NSVU2K	1105620
		PNP	NO	Visual adjustment indicator, IO-Link	Cable with connector M8, 3-pin, 0.2 m	IMM05-1B5PSVR8K	1108730
	Cable, 3-wire, 2 m				IMM05-1B5PSVU2K	1101612	
	2.5 mm	Standard design	NPN	NO	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IMM05-2B5NSVT0S
Cable, 3-wire, 2 m						IMM05-2B5POVU2S	1114519
NO			NO	Visual adjustment indicator, IO-Link, triple sensing range	Cable with connector M8, 3-pin, 0.2 m	IMM05-2B5PSVR8S	1108734
					Cable, 3-wire, 2 m	IMM05-2B5PSVU2S	1101832
					Connector M8, 3-pin	IMM05-2B5PSVT0S	1104202
Short-body		NPN	NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IMM05-2B5NSVU2K	1103981
		PNP	NO	Visual adjustment indicator, IO-Link, triple sensing range	Cable with connector M8, 3-pin, 0.2 m	IMM05-2B5PSVR8K	1108731
Cable, 3-wire, 2 m					IMM05-2B5PSVU2K	1103563	

- **Sub product family:** IHM06
- **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	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-1B5PSVU2K	1115211		
						IHM06-1B5PSVW2K	1114598		
					Connector M8, 3-pin	IHM06-1B5PSVT0K	1114596		
	Ultrashort	NPN	NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-1B5NSVW2G	1103298		
					Connector M8, 3-pin	IHM06-1B5NSVT0G	1101120		
		PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-1B5POVW2G	1104484		
					NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-1B5PSVU2G	1104494
							IHM06-1B5PSVW2G	1099600	
							Connector M8, 3-pin	IHM06-1B5PSVT0G	1101119
					2 mm	Standard design	NPN	NC	Visual adjustment indicator
Connector M8, 3-pin	IHM06-02BNOVT0S	1101132							
NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BNSVW2S	1104493					
		Connector M8, 3-pin	IHM06-02BNSVT0S	1101131					
PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BPOVW2S			1104491		
			Connector M8, 3-pin	IHM06-02BPOVT0S			1101134		



Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
			NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-02BPSVU2S	1104490	
						IHM06-02BPSVW2S	1101165	
					Connector M8, 3-pin	IHM06-02BPSVT0S	1101133	
	Short-body	NPN	NC	Visual adjustment indicator		Cable, 3-wire, 2 m	IHM06-02BNOVW2K	1104488
					Connector M8, 3-pin	IHM06-02BNOVT0K	1101129	
			NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BNSVW2K	1104489	
		Connector M8, 3-pin			IHM06-02BNSVT0K	1101130		
		PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BPOVW2K	1104487	
					Connector M8, 3-pin	IHM06-02BPOVT0K	1101128	
	NO		Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-02BPSVU2K	1104486		
		Connector M8, 3-pin		IHM06-02BPSVW2K	1101164			
	Ultrashort	NPN	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BNOVW2G	1103980	
					Connector M8, 3-pin	IHM06-02BNOVT0G	1101123	
					NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BNSVW2G
			Connector M8, 3-pin	IHM06-02BNSVT0G			1101126	
			PNP	NC	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-02BPOVW2G	1103978
						Connector M8, 3-pin	IHM06-02BPOVT0G	1101122
		NO		Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-02BPSVW2G	1099599	
			Connector M8, 3-pin		IHM06-02BPSVT0G	1101121		

Sensing range $S_n$	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.
3 mm	Standard design	NPN	NO	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-03BNSVTOS	1107051
		PNP	NO	Visual adjustment indicator, IO-Link, triple sensing range	Connector M8, 3-pin	IHM06-03BPSVTOS	1107050
	Short-body	NPN	NC	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-03BNOVTOK	1104498
			NO		Cable, 3-wire, 2 m	IHM06-03BNSVW2K	1113394
					Connector M8, 3-pin	IHM06-03BNSVTOK	1104496
		PNP	NC	Connector M8, 3-pin	IHM06-03BPOVTOK	1104497	
			NO	Visual adjustment indicator, IO-Link, triple sensing range	Connector M8, 3-pin	IHM06-03BPSVTOK	1104495
	Ultrashort	NPN	NC	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-03BNOVT0G	1103986
			NO		Cable, 3-wire, 2 m	IHM06-03BNSVW2G	1107047
					Connector M8, 3-pin	IHM06-03BNSVT0G	1103985
		PNP	NC	Connector M8, 3-pin	IHM06-03BPOVT0G	1103983	
			NO	Visual adjustment indicator, IO-Link, triple sensing range	Cable, 3-wire, 2 m	IHM06-03BPSVW2G	1107049
				Connector M8, 3-pin	IHM06-03BPSVT0G	1103982	

- **Sub product family:** IHM06
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range S <sub>n</sub>	Housing	Switching output	Output function	Special features	Connection type	Type	Part no.	
4 mm	Standard design	NPN	NC	Visual adjustment indicator	Connector M8, 3-pin	IHM06-04NNOVT0S	1104504	
			NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-04NNSVW2S	1104514	
		PNP	NC	Visual adjustment indicator	Connector M8, 3-pin	IHM06-04NNSVT0S	1104503	
			NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-04NPSVW2S	1104505	
		PNP	NC	Visual adjustment indicator	Connector M8, 3-pin	IHM06-04NPOVT0S	1104505	
			NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-04NPSVT0S	1104515	
	Short-body	NPN	NC	Visual adjustment indicator	Connector M8, 3-pin	IHM06-04NNOVT0K	1104501	
			NO	Visual adjustment indicator	Cable, 3-wire, 2 m	IHM06-04NNSVW2K	1104513	
		PNP	NC	Visual adjustment indicator	Connector M8, 3-pin	IHM06-04NNSVT0K	1104502	
			NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-04NPSVW2K	1104500	
		PNP	NC	Visual adjustment indicator	Connector M8, 3-pin	IHM06-04NPOVT0K	1104500	
			NO	Visual adjustment indicator, IO-Link	Cable, 3-wire, 2 m	IHM06-04NPSVT0K	1104512	
	6 mm	Standard design	NPN	NO	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-06NNSVT0S	1113395
			PNP	NO	Visual adjustment indicator, IO-Link, triple sensing range	Connector M8, 3-pin	IHM06-06NPSVT0S	1114155
Short-body		NPN	NC	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-06NNOVT0K	1104511	
			NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IHM06-06NNSVW2K	1106314	
		PNP	NC	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-06NNSVT0K	1104510	
			NO	Visual adjustment indicator, triple sensing range	Cable, 3-wire, 2 m	IHM06-06NPOVW2K	1108857	
		PNP	NC	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-06NPOVT0K	1104509	
			NO	Visual adjustment indicator, IO-Link, triple sensing range	Cable, 3-wire, 2 m	IHM06-06NPSVW2K	1105591	
PNP		NC	Visual adjustment indicator, triple sensing range	Connector M8, 3-pin	IHM06-06NPSVT0K	1104507		

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