



# IME

THE ECONOMICAL STANDARD FOR USE  
IN INDUSTRIAL ENVIRONMENTS

Inductive proximity sensors

**SICK**  
Sensor Intelligence.



The classic solution for industrial use – now with triple or quadruple sensing range

## WHEN YOU NEED MORE, CONSIDER THREE OR FOUR

When you need a bit “more” from your sensing range, the inductive IME sensors with triple or quadruple sensing ranges are the best choice in the industrial environment.

SICK has significantly expanded the sensing range, which means that the distance to moving objects can be increased and mechanical damage avoided. This increases the reliability of machines and systems. Whether it’s steel, stainless steel, aluminum, or copper, with the IME sensors with triple or quadruple sensing ranges, your materials are always reliably detected, even from a great distance. The high detection sensitivity also enables hard-to-recognize parts, such as small screws, wires, or thin sheets, to be detected. The increased sensing range not only enables greater tolerances in the machine design, it also saves space. Previously, a larger housing sensor would have been required to achieve the desired sensing range, but now the IME triple and quadruple sensors require less installation space, opening up new saving potentials.

### Application areas

With maximum performance, the IME sensors are clear price-performance winners in many different application areas:

- Handling and assembly machines
- Textile machinery
- Packaging machines
- Conventional machine building
- Storage and conveyor systems

### Operating range at different sensing ranges

1x	1 mm ... 15 mm
2x	2 mm ... 20 mm
3x	3 mm ... 38 mm
4x	4 mm ... (...) mm

### The benefits at a glance

- Performance that pays off
- Large operating reserve due to triple or quadruple sensing ranges allow more machine throughput
- Lower risk of mechanical damage due to a greater distance from moving parts
- saves money by increasing sensor life and reducing machine downtime for replacement
- Smaller sensor housing required for the same sensing range when compared with standard sensors allowing flexibility in machine design
- Ability to detect metals with reduction factors at long ranges allows consideration for new applications

In order to meet a wide range of requirements, IME sensors are available with the following sensing ranges:

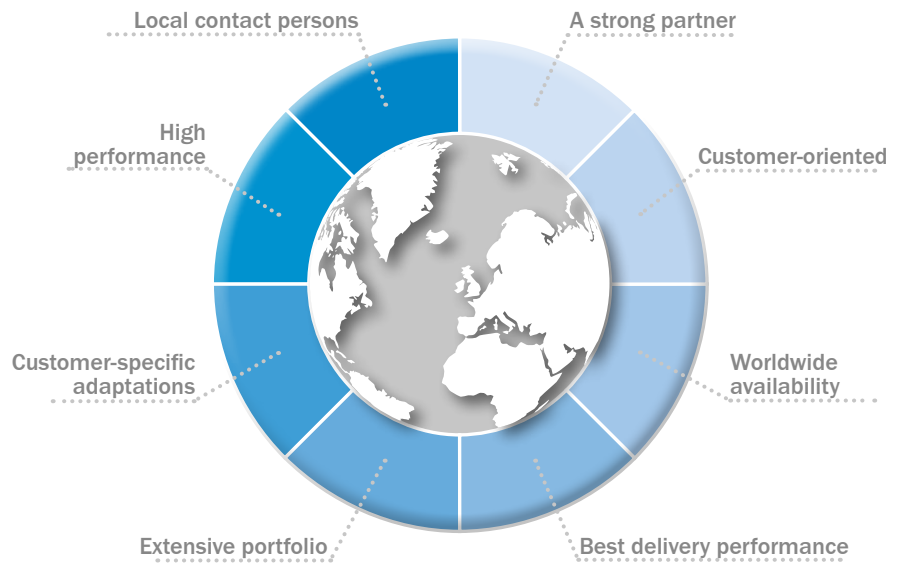
Product	Sensing range (mm)	Page
M08 quasi-flush	4 mm	→ 4
M08 non-flush	6 mm	→ 4
M12 quasi-flush	6 mm	→ 12
M12 non-flush	10 mm	→ 12
M18 quasi-flush	12 mm	→ 18
M18 non-flush	20 mm	→ 18
M30 quasi-flush	20 mm	→ 24
M30 non-flush	38 mm	→ 24

## SICK – WE UNDERSTAND

In addition to their high performance capacity, the inductive sensors by SICK also fulfill the basic conditions. The inductive sensors are characterized by their worldwide availability, the best delivery performance and an extensive portfolio – and make SICK the right partner for you.

If, despite the extensive portfolio selection, no suitable sensor is available, our customer-specific adaptations provide an even higher degree of flexibility. Our goal: the right sensor for your application – and at the right time.

Even for tricky tasks. Thanks to worldwide support in over 88 countries, SICK will work with you to always find a solution.



As a major player in automation technology, partnership with SICK offers you many benefits. Our goal is to continue driving innovation in the industry, even in areas neglected by others – and we want to do this across all sectors. Our global network of production plants with unified quality standards guarantees a

safe and reliable supply. Our elaborate logistics concept ensures rapid availability on site, regardless of which of our over 40,000 products you require. The individual needs of our customers are paramount to SICK. Our local sales department will advise and support you with your automation projects. Together

with our regional development and competence centers, we thus create added value for our customers.

# THE ECONOMICAL STANDARD FOR USE IN INDUSTRIAL ENVIRONMENTS



## Product description

SICK's inductive sensors offer precise detection, less downtime, and a long service life. The IME inductive sensors pack high technology into the smallest of spaces. The integrated ASIC chip enables digital adjustment after the end of the manufacturing process. The saving of values in the ASIC ensures highly precise switching points and very high

repeatability of values – for any number of production runs. IME sensors are completely encapsulated with hot melt technology, which increases these sensors' life under shock and vibration. The customer benefits from high positioning accuracy in the machine and long-term sensor reliability.

## At a glance

- Type: M08
- Extended sensing range: 3 mm to 6 mm
- Electrical wiring: DC 3-wire
- Enclosure rating: IP 67
- Temperature range: -25 °C to 75 °C
- Nickel-plated brass housing, plastic sensing face

## Your benefits

- Reliable 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
- High level of cost-effectiveness thanks to low acquisition costs
- Comprehensive standard product portfolio
- Easy to implement customer-specific variants within the standard product portfolio



## Additional information

Detailed technical data . . . . .	5
Ordering information . . . . .	6
Dimensional drawings . . . . .	7
Connection diagram . . . . .	8
Installation note . . . . .	9
Recommended accessories . . . . .	10

→ [www.mysick.com/en/IME08](http://www.mysick.com/en/IME08)

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



## Detailed technical data

### Features

	Quasi-flush	Non-flush
<b>Housing</b>	Cylindrical thread design	
<b>Thread size</b>	M8 x 1	
<b>Sensing range <math>S_n</math></b>	3 mm/4 mm (depending on type)	6 mm
<b>Assured sensing range <math>S_a</math></b>	2.43 mm/3.24 mm (depending on type)	4.86 mm
<b>Installation type</b>	Quasi-flush	Non-flush
<b>Switching frequency</b>	1,000 Hz/500 Hz (depending on type)	500 Hz
<b>Output type</b>	PNP / NPN (depending on type)	
<b>Output function</b>	NO / NC (depending on type)	
<b>Electrical wiring</b>	DC 3-wire	
<b>Enclosure rating <sup>1)</sup></b>	IP 67	

<sup>1)</sup> According to EN 60529.

### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	≤ 10 %
<b>Voltage drop <sup>1)</sup></b>	≤ 2 V
<b>Current consumption <sup>2)</sup></b>	≤ 10 mA
<b>Time delay before availability</b>	≤ 50 ms
<b>Hysteresis</b>	1 % ... 15 %
<b>Repeatability <sup>3) 4)</sup></b>	≤ 5 %
<b>Temperature drift (of <math>S_n</math>)</b>	± 10 %
<b>EMC</b>	According to EN 60947-5-2
<b>Continuous current <math>I_a</math></b>	≤ 200 mA
<b>Current consumption, no load</b>	≤ 10 mA
<b>Connection type</b>	Cable, 2 m, PVC Male connector, M8 Male connector, M12 (depending on type)
<b>Short-circuit protection</b>	✓
<b>Reverse polarity protection</b>	✓
<b>Power-up pulse protection</b>	✓
<b>Shock and vibration resistance</b>	30 g, 11 ms/10 Hz ... 55 Hz, 1 mm
<b>Ambient operating temperature</b>	-25 °C ... +75 °C
<b>Ambient storage temperature</b>	-25 °C ... +75 °C
<b>Housing material</b>	Metal, Nickel-plated brass
<b>Housing cap material</b>	Plastic, PA6
<b>Tightening torque, max.</b>	Typ. 5 Nm

<sup>1)</sup> At  $I_a$  max.

<sup>2)</sup> Without load.

<sup>3)</sup>  $U_b$  and  $T_a$  constant.

<sup>4)</sup> Of  $S_r$ .

Reduction factors

	Quasi-flush	Non-flush
<b>Note</b>	The values are reference values which may vary	
<b>St37 steel (Fe)</b>	Approx. 1	Approx. 1
<b>Stainless steel (V2A, 304)</b>	Approx. 0.75	Approx. 0.68
<b>Aluminum (Al)</b>	Approx. 0.46	Approx. 0.45
<b>Copper (Cu)</b>	Approx. 0.42	Approx. 0.39
<b>Brass (Br)</b>	Approx. 0.56	Approx. 0.49

Ordering information

IME08

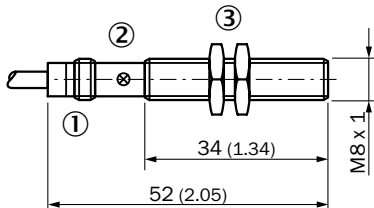
- **Electrical wiring:** DC 3-wire
- **Housing:** M8 x 1

Sensing range $S_n$	Installation type	Output function	Output type	Connection	Housing	Connection diagram	Model name	Part no.
3 mm	Quasi-flush	NO	NPN	Connector M12, 4-pin	Standard	Cd-007	IME08-03BNSZC0S	1074031
				Connector M8, 3-pin	Short-body	Cd-002	IME08-03BNSZT0K	1074040
					Standard	Cd-002	IME08-03BNSZT0S	1073663
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME08-03BNSZW2K	1074009
			Standard		Cd-001	IME08-03BNSZW2S	1074044	
			PNP	Connector M12, 4-pin	Standard	Cd-007	IME08-03BPSZC0S	1074029
				Connector M8, 3-pin	Short-body	Cd-002	IME08-03BPSZT0K	1074037
					Standard	Cd-002	IME08-03BPSZT0S	1073457
		Cable, 3-wire, 2 m, PVC		Short-body	Cd-001	IME08-03BPSZW2K	1074007	
		NC	NPN	Connector M8, 3-pin	Short-body	Cd-004	IME08-03BNOZT0K	1074041
					Standard	Cd-004	IME08-03BNOZT0S	1074026
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME08-03BNOZW2K	1074035
					Standard	Cd-003	IME08-03BNOZW2S	1074045
			PNP	Connector M12, 4-pin	Standard	Cd-008	IME08-03BPOZC0S	1074030
				Connector M8, 3-pin	Short-body	Cd-004	IME08-03BPOZT0K	1074038
					Standard	Cd-004	IME08-03BPOZT0S	1073662
Cable, 3-wire, 2 m, PVC	Short-body			Cd-003	IME08-03BPOZW2K	1074008		
4 mm	Quasi-flush	NO	NPN	Cable, 3-wire, 2 m, PVC	Standard	Cd-001	IME08-04BNSZW2S	1086323
				Connector M8, 3-pin	Standard	Cd-002	IME08-04BNSZT0S	1086327
			PNP	Cable, 3-wire, 2 m, PVC	Standard	Cd-001	IME08-04BPSZW2S	1079510
				Connector M8, 3-pin	Standard	Cd-002	IME08-04BPSZT0S	1086325
					Cable, 3-wire, 2 m, PVC	Standard	Cd-003	IME08-04BNOZW2S
		NC	NPN	Connector M8, 3-pin	Standard	Cd-004	IME08-04BNOZT0S	1086328
				Cable, 3-wire, 2 m, PVC	Standard	Cd-003	IME08-04BPOZW2S	1086321
			PNP	Cable, 3-wire, 2 m, PVC	Standard	Cd-003	IME08-04BPOZW2S	1086321
				Connector M8, 3-pin	Standard	Cd-004	IME08-04BPOZT0S	1086326
					Cable, 3-wire, 2 m, PVC	Standard	Cd-004	IME08-04BPOZT0S

Sensing range $S_n$	Installation type	Output function	Output type	Connection	Housing	Connection diagram	Model name	Part no.
6 mm	Non-flush	NO	NPN	Connector M8, 3-pin	Short-body	Cd-002	IME08-06NNSZT0K	1071202
					Standard	Cd-002	IME08-06NNSZT0S	1071210
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME08-06NNSZW2K	1071198
			Standard		Cd-001	IME08-06NNSZW2S	1071206	
			PNP	Connector M12, 4-pin	Standard	Cd-007	IME08-06NPSZC0S	1071213
					Connector M8, 3-pin	Short-body	Cd-002	IME08-06NPSZT0K
		Standard		Cd-002		IME08-06NPSZT0S	1071208	
		Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME08-06NPSZW2K	1071195		
			Standard	Cd-001	IME08-06NPSZW2S	1071204		
		NC	NPN	Connector M8, 3-pin	Short-body	Cd-004	IME08-06NNOZT0K	1071203
					Standard	Cd-004	IME08-06NNOZT0S	1071211
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME08-06NNOZW2K	1071199
			Standard		Cd-003	IME08-06NNOZW2S	1071207	
			PNP	Connector M12, 4-pin	Standard	Cd-008	IME08-06NPOZC0S	1071212
					Connector M8, 3-pin	Short-body	Cd-004	IME08-06NPOZT0K
		Standard		Cd-004		IME08-06NPOZT0S	1071209	
		Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME08-06NPOZW2K	1071196		
			Standard	Cd-003	IME08-06NPOZW2S	1071205		

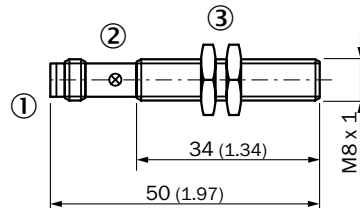
**Dimensional drawings** (Dimensions in mm (inch))

IME08 Standard, cable, flush



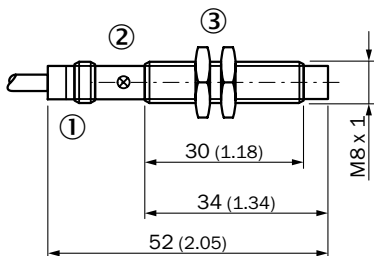
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector, flush



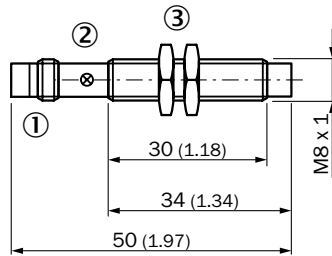
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, cable, non-flush



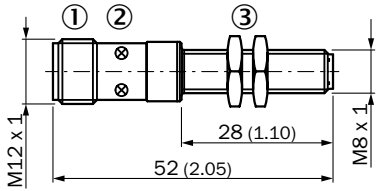
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector, non-flush



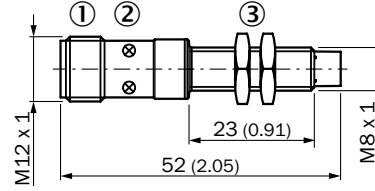
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector, M12, flush



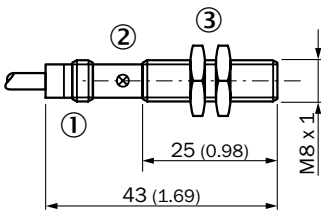
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector M12, non-flush



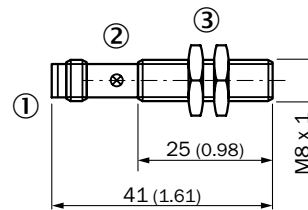
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Short-body housing, cable, flush



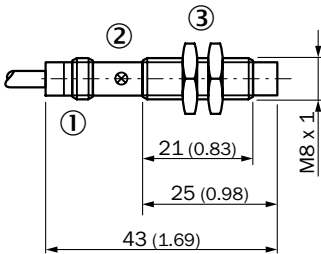
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Short-body housing, connector, flush



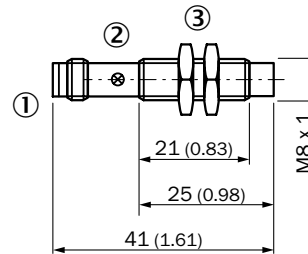
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

IME08 Short-body housing, cable, non-flush



- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

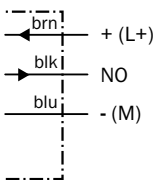
IME08 Short-body housing, connector, non-flush



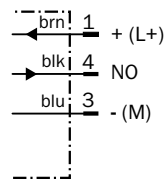
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 13, metal

## Connection diagram

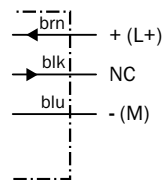
Cd-001



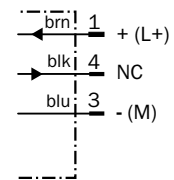
Cd-002



Cd-003

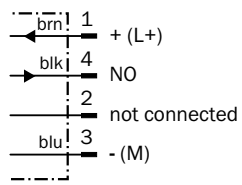


Cd-004

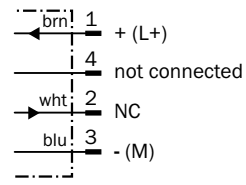




Cd-007

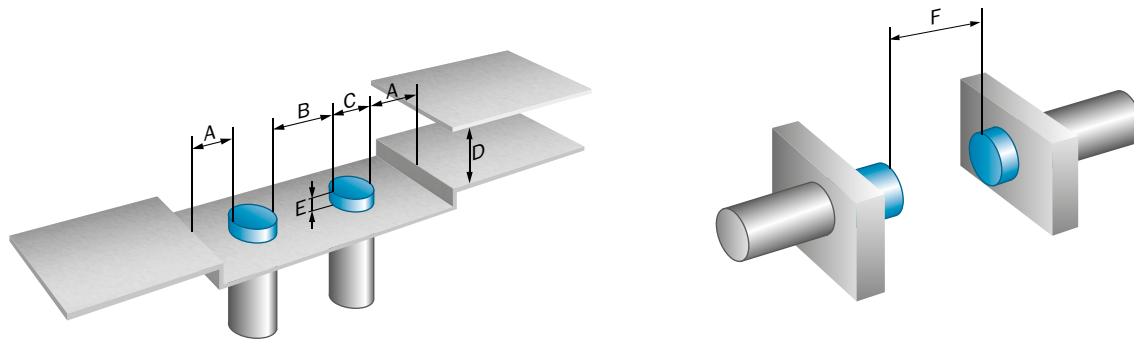


Cd-008

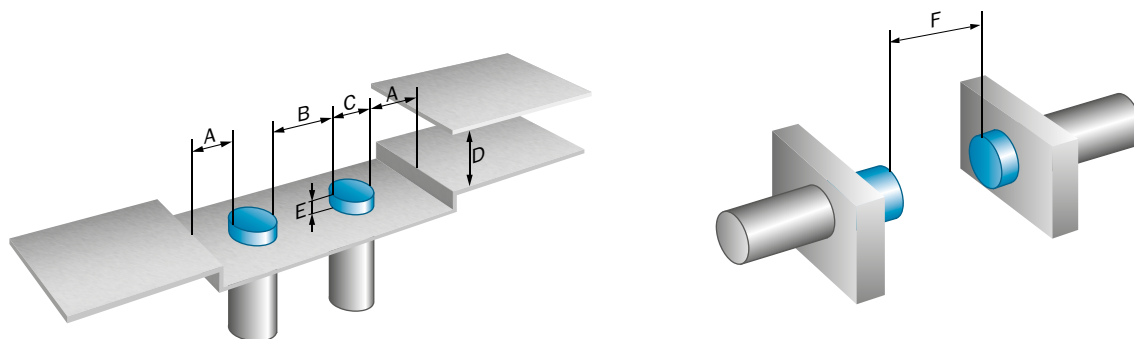


**Installation note**

Quasi-flush installation



Non-flush installation





**Installation note**

	Installation type	Sensing range Sn	A	B	C	D	E	F
IME08-03Bxxxxxx	Quasi-flush	3 mm	3 mm	20 mm	8 mm	9 mm	1 mm	30 mm
IME08-04Bxxxxxx	Quasi-flush	4 mm	4 mm	20 mm	8 mm	12 mm	1 mm	30 mm
IME08-06Nxxxxxx	Non-flush	6 mm	16 mm	30 mm	8 mm	18 mm	10 mm	60 mm


Recommended accessories

Mounting systems

Mounting brackets

Figure	Material	Description	Type	Part no.
	Steel, zinc coated	Mounting plate for M8 sensors	BEF-WG-M08	5321722
		Mounting bracket, M8 thread	BEF-WN-M08	5321721



Terminal brackets

Figure	Material	Description	Type	Part no.
	Plastic (PA12), glass-fiber reinforced	Clamping block for round sensors M8, without fixed stop	BEF-KH-M08	2051477
		Clamping block for round sensors M8, with fixed stop	BEF-KHF-M08	2051478

Connection systems

Connecting cables with female connector, M12, 4-pin

- **Cable material:** PVC
- **Connector material:** TPU

Figure	Connection type head A	Connection type head B	Connecting cable	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G02M	6009382
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G05M	6009866
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G10M	6010543
	Female connector, M12, 4-pin, angled, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W02M	6009383
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W05M	6009867
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W10M	6010541

Connecting cables with female connector, M8, 3-pin

- **Cable material:** PVC
- **Connector material:** TPU







Figure	Connection type head A	Connection type head B	Connecting cable	Locking nut material	Type	Part no.
	Female connector, M8, 3-pin, straight, unshielded	Cable, open conductor heads	2 m, 3-wire	CuZn, nickel-plated brass	DOL-0803-G02M	6010785
			5 m, 3-wire	CuZn, nickel-plated brass	DOL-0803-G05M	6022009
			10 m, 3-wire	CuZn, nickel-plated brass	DOL-0803-G10M	6022011

Figure	Connection type head A	Connection type head B	Connecting cable	Locking nut material	Type	Part no.
	Female connector, M8, 3-pin, angled, unshielded	Cable, open conductor heads	2 m, 3-wire	CuZn, nickel-plated brass	DOL-0803-W02M	6008489
			5 m, 3-wire	CuZn, nickel-plated brass	DOL-0803-W05M	6022010
			10 m, 3-wire	CuZn, nickel-plated brass	DOL-0803-W10M	6022012

Female connectors (ready to assemble), M12, 4-pin

Figure	Connection type head A	Connection type head B	Connector material	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Screw-type terminals	PA	CuZn	DOS-1204-G	6007302
	Female connector, M12, 4-pin, angled, unshielded	Screw-type terminals	PBT	CuZn	DOS-1204-W	6007303

Female connectors (ready to assemble), M8, 3-pin

Figure	Connection type head A	Connection type head B	Connector material	Locking nut material	Type	Part no.
	Female connector, M8, 3-pin, straight, unshielded	Screw-type terminals	PBT/PA	CuZn	DOS-0803-G	7902077
	Female connector, M8, 3-pin, angled, unshielded	Solder connection	PA/Zinc diecast	CuZn	DOS-0803-W	7902078

Dimensional drawings → [page 31](#)

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## Product description

SICK's inductive sensors offer precise detection, less downtime, and a long service life. The IME inductive sensors pack high technology into the smallest of spaces. The integrated ASIC chip enables digital adjustment after the end of the manufacturing process. The saving of values in the ASIC ensures highly precise switching points and very high

repeatability of values – for any number of production runs. IME sensors are completely encapsulated with hot melt technology, which increases these sensors' life under shock and vibration. The customer benefits from high positioning accuracy in the machine and long-term sensor reliability.

## At a glance

- Type: M12
- Extended sensing range: 6 mm to 10 mm
- Electrical wiring: DC 3-wire
- Enclosure rating: IP 67
- Temperature range: -25 °C to 75 °C
- Nickel-plated brass housing, plastic sensing face

## Your benefits

- Reliable 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
- High level of cost-effectiveness thanks to low acquisition costs
- Comprehensive standard product portfolio
- Easy to implement customer-specific variants within the standard product portfolio



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Detailed technical data . . . . .	13
Ordering information . . . . .	14
Dimensional drawings . . . . .	15
Connection diagram . . . . .	16
Installation note . . . . .	16
Recommended accessories . . . . .	17

→ [www.mysick.com/en/IME12](http://www.mysick.com/en/IME12)

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



## Detailed technical data

## Features

	Quasi-flush	Non-flush
<b>Housing</b>	Cylindrical thread design	
<b>Thread size</b>	M12 x 1	
<b>Sensing range <math>S_n</math></b>	6 mm	10 mm
<b>Assured sensing range <math>S_a</math></b>	4.86 mm	8.1 mm
<b>Installation type</b>	Quasi-flush	Non-flush
<b>Switching frequency</b>	800 Hz	400 Hz
<b>Output type</b>	PNP / NPN (depending on type)	
<b>Output function</b>	NO / NC (depending on type)	
<b>Electrical wiring</b>	DC 3-wire	
<b>Enclosure rating <sup>1)</sup></b>	IP 67	

<sup>1)</sup> According to EN 60529.

## Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	≤ 10 %
<b>Voltage drop <sup>1)</sup></b>	≤ 2 V
<b>Current consumption</b>	≤ 10 mA
<b>Time delay before availability</b>	≤ 50 ms
<b>Hysteresis</b>	1 % ... 15 %
<b>Repeatability <sup>3) 4)</sup></b>	≤ 5 %
<b>Temperature drift (of <math>S_n</math>)</b>	± 10 %
<b>EMC</b>	According to EN 60947-5-2
<b>Continuous current <math>I_a</math></b>	≤ 200 mA
<b>Current consumption, no load</b>	≤ 10 mA
<b>Connection type</b>	Cable, 2 m, PVC Male connector, M12 (depending on type)
<b>Short-circuit protection</b>	✓
<b>Reverse polarity protection</b>	✓
<b>Power-up pulse protection</b>	✓
<b>Shock and vibration resistance</b>	30 g, 11 ms/10 Hz ... 55 Hz, 1 mm
<b>Ambient operating temperature</b>	-25 °C ... +75 °C
<b>Ambient storage temperature</b>	-25 °C ... +75 °C
<b>Housing material</b>	Metal, Nickel-plated brass
<b>Housing cap material</b>	Plastic, PA6
<b>Tightening torque, max.</b>	12 Nm

<sup>1)</sup> At  $I_a$  max.

<sup>2)</sup> Without load.

<sup>3)</sup>  $U_b$  and  $T_a$  constant.

<sup>4)</sup> Of  $S_r$ .

Reduction factors

	Quasi-flush	Non-flush
<b>Note</b>	The values are reference values which may vary	
<b>St37 steel (Fe)</b>	Approx. 1	Approx. 1
<b>Stainless steel (V2A, 304)</b>	Approx. 0.75	Approx. 0.68
<b>Aluminum (Al)</b>	Approx. 0.52	Approx. 0.47
<b>Copper (Cu)</b>	Approx. 0.45	Approx. 0.42
<b>Brass (Br)</b>	Approx. 0.54	Approx. 0.50

Ordering information

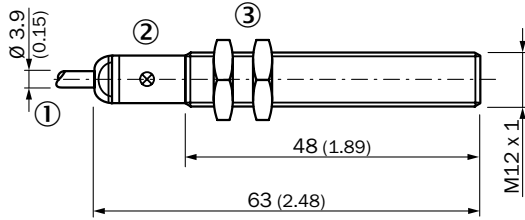
IME12

- **Electrical wiring:** DC 3-wire

Housing	Sensing range S <sub>n</sub>	Installation type	Output function	Output type	Connection	Housing	Connection diagram	Model name	Part no.
M12 x 1	6 mm	Quasi-flush	NO	NPN	Connector M12, 4-pin	Short-body	Cd-007	IME12-06BNSZC0K	1071220
						Standard	Cd-007	IME12-06BNSZC0S	1071228
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME12-06BNSZW2K	1071216	
					Standard	Cd-001	IME12-06BNSZW2S	1071224	
				PNP	Connector M12, 4-pin	Short-body	Cd-007	IME12-06BPSZC0K	1071218
						Standard	Cd-007	IME12-06BPSZC0S	1071226
			Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME12-06BPSZW2K	1071214		
				Standard	Cd-001	IME12-06BPSZW2S	1071222		
			NC	NPN	Connector M12, 4-pin	Short-body	Cd-008	IME12-06BNOZC0K	1071221
						Standard	Cd-008	IME12-06BNOZC0S	1071229
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME12-06BNOZW2K	1071217	
					Standard	Cd-003	IME12-06BNOZW2S	1071225	
	PNP	Connector M12, 4-pin		Short-body	Cd-008	IME12-06BPOZC0K	1071219		
				Standard	Cd-008	IME12-06BPOZC0S	1071227		
	Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME12-06BPOZW2K	1071215				
		Standard	Cd-003	IME12-06BPOZW2S	1071223				
	10 mm	Non-flush	NO	NPN	Connector M12, 4-pin	Short-body	Cd-007	IME12-10NNSZC0K	1071232
						Standard	Cd-007	IME12-10NNSZC0S	1071244
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME12-10NNSZW2K	1071236	
					Standard	Cd-001	IME12-10NNSZW2S	1071240	
				PNP	Connector M12, 4-pin	Short-body	Cd-007	IME12-10NPSZC0K	1071234
						Standard	Cd-007	IME12-10NPSZC0S	1071242
			Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME12-10NPSZW2K	1071230		
				Standard	Cd-001	IME12-10NPSZW2S	1071238		
NC			NPN	Connector M12, 4-pin	Short-body	Cd-008	IME12-10NNOZC0K	1071237	
					Standard	Cd-008	IME12-10NNOZC0S	1071245	
			Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME12-10NNOZW2K	1071233		
				Standard	Cd-003	IME12-10NNOZW2S	1071241		
	PNP	Connector M12, 4-pin	Short-body	Cd-008	IME12-10NPOZC0K	1071235			
			Standard	Cd-008	IME12-10NPOZC0S	1071243			
Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME12-10NPOZW2K	1071231					
	Standard	Cd-003	IME12-10NPOZW2S	1071239					

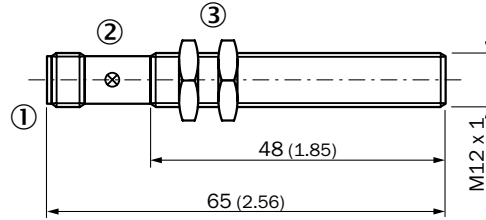
**Dimensional drawings** (Dimensions in mm (inch))

IME12 Standard, cable, flush



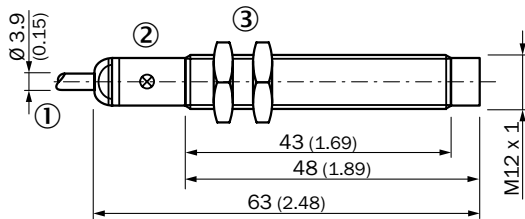
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

IME12 Standard, connector, flush



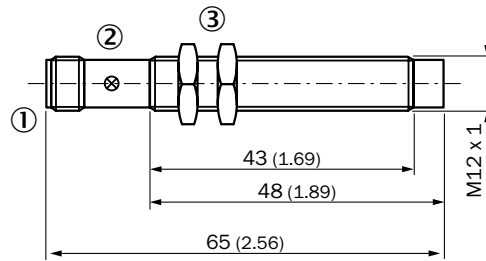
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

IME12 Standard, cable, non-flush



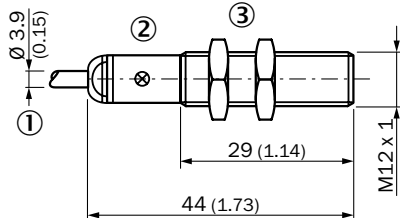
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

IME12 Standard, connector, non-flush



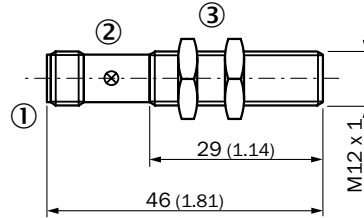
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

IME12 Short-body housing, cable, flush



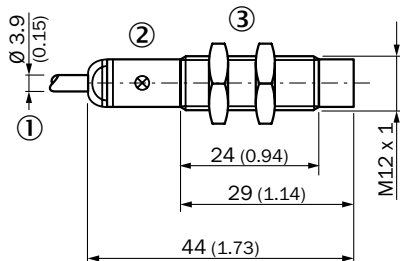
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

IME12 Short-body housing, connector, flush



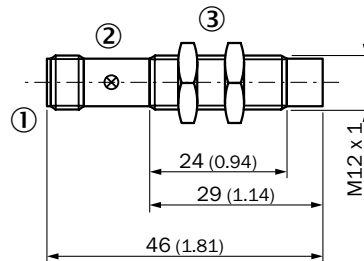
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

IME12 Short-body housing, cable, non-flush



- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

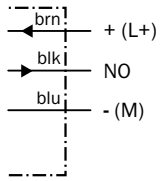
IME12 Short-body housing, connector, non-flush



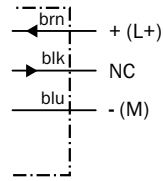
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); width across 17, metal

Connection diagram

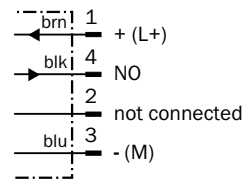
Cd-001



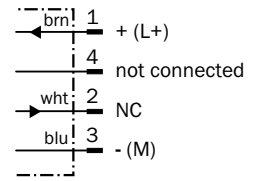
Cd-003



Cd-007

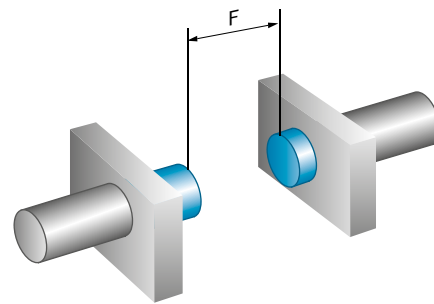
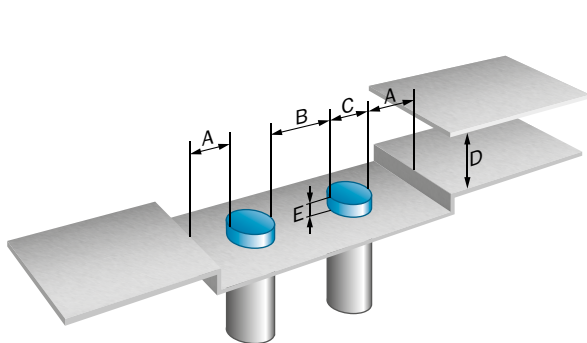


Cd-008

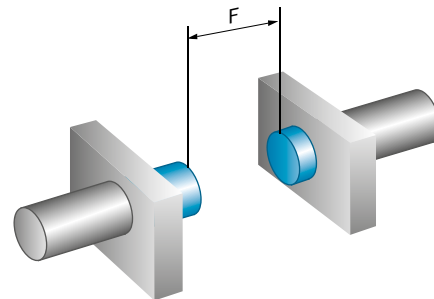
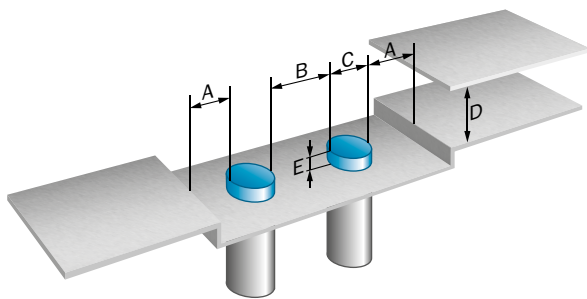


Installation note

Quasi-flush installation



Non-flush installation



Installation note



	Installation type	Sensing range Sn	A	B	C	D	E	F
IME12-06Bxxxxxx	Quasi-flush	6 mm	6 mm	25 mm	12 mm	18 mm	2 mm	60 mm
IME12-10Nxxxxxx	Non-flush	10 mm	15 mm	45 mm	12 mm	30 mm	13 mm	100 mm



## Recommended accessories

### Mounting systems

#### Mounting brackets

Figure	Material	Description	Type	Part no.
	Steel, zinc coated	Mounting plate for M12 sensors	BEF-WG-M12	5321869
		Mounting bracket, M12 thread	BEF-WN-M12	5308447



#### Terminal brackets

Figure	Material	Description	Type	Part no.
	Plastic (PA12), glass-fiber reinforced	Clamping block for round sensors M12, without fixed stop	BEF-KH-M12	2051479
		Clamping block for round sensors M12, with fixed stop	BEF-KHF-M12	2051480



### Connection systems

#### Connecting cables with female connector, M12, 4-pin

- **Cable material:** PVC
- **Connector material:** TPU

Figure	Connection type head A	Connection type head B	Connecting cable	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G02M	6009382
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G05M	6009866
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G10M	6010543
	Female connector, M12, 4-pin, angled, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W02M	6009383
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W05M	6009867
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W10M	6010541

#### Female connectors (ready to assemble), M12, 4-pin

Figure	Connection type head A	Connection type head B	Connector material	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Screw-type terminals	PA	CuZn	DOS-1204-G	6007302
	Female connector, M12, 4-pin, angled, unshielded	Screw-type terminals	PBT	CuZn	DOS-1204-W	6007303

Dimensional drawings → [page 31](#)

## THE ECONOMICAL STANDARD FOR USE IN INDUSTRIAL ENVIRONMENTS



### Product description

SICK's inductive sensors offer precise detection, less downtime, and a long service life. The IME inductive sensors pack high technology into the smallest of spaces. The integrated ASIC chip enables digital adjustment after the end of the manufacturing process. The saving of values in the ASIC ensures highly precise switching points and very high

repeatability of values – for any number of production runs. IME sensors are completely encapsulated with hot melt technology, which increases these sensors' life under shock and vibration. The customer benefits from high positioning accuracy in the machine and long-term sensor reliability.

### At a glance

- Type: M18
- Extended sensing range: 12 mm to 20 mm
- Electrical wiring: DC 3-wire
- Enclosure rating: IP 67
- Temperature range: -25 °C to 75 °C
- Nickel-plated brass housing, plastic sensing face

### Your benefits

- Reliable 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
- High level of cost-effectiveness thanks to low acquisition costs
- Comprehensive standard product portfolio
- Easy to implement customer-specific variants within the standard product portfolio



### Additional information

Detailed technical data . . . . .	19
Ordering information . . . . .	20
Dimensional drawings . . . . .	21
Connection diagram . . . . .	22
Installation note . . . . .	22
Recommended accessories . . . . .	23

→ [www.mysick.com/en/IME18](http://www.mysick.com/en/IME18)

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



## Detailed technical data

## Features

	Quasi-flush	Non-flush
<b>Housing</b>	Cylindrical thread design	
<b>Thread size</b>	M18 x 1	
<b>Sensing range <math>S_n</math></b>	12 mm	20 mm
<b>Assured sensing range <math>S_a</math></b>	9.72 mm	16.2 mm
<b>Installation type</b>	Quasi-flush	Non-flush
<b>Switching frequency</b>	500 Hz	200 Hz
<b>Output type</b>	PNP / NPN (depending on type)	
<b>Output function</b>	NO / NC (depending on type)	
<b>Electrical wiring</b>	DC 3-wire	
<b>Enclosure rating <sup>1)</sup></b>	IP 67	

<sup>1)</sup> According to EN 60529.

## Mechanics/electronics

	Quasi-flush	Non-flush
<b>Supply voltage</b>	10 V DC ... 30 V DC	
<b>Ripple</b>	≤ 10 %	
<b>Voltage drop <sup>1)</sup></b>	≤ 2 V	
<b>Current consumption</b>	≤ 10 mA	
<b>Time delay before availability</b>	≤ 50 ms	≤ 100 ms
<b>Hysteresis</b>	1 % ... 15 %	
<b>Repeatability <sup>3)</sup> <sup>4)</sup></b>	≤ 5 %	
<b>Temperature drift (of <math>S_n</math>)</b>	± 10 %	
<b>EMC</b>	According to EN 60947-5-2	
<b>Continuous current <math>I_a</math></b>	≤ 200 mA	
<b>Current consumption, no load</b>	≤ 10 mA	
<b>Connection type</b>	Cable, 2 m, PVC Male connector, M12 (depending on type)	
<b>Short-circuit protection</b>	✓	
<b>Reverse polarity protection</b>	✓	
<b>Power-up pulse protection</b>	✓	
<b>Shock and vibration resistance</b>	30 g, 11 ms/10 Hz ... 55 Hz, 1 mm	
<b>Ambient operating temperature</b>	-25 °C ... +75 °C	
<b>Ambient storage temperature</b>	-25 °C ... +75 °C	
<b>Housing material</b>	Metal, Nickel-plated brass	
<b>Housing cap material</b>	Plastic, PA6	
<b>Tightening torque, max.</b>	40 Nm	

<sup>1)</sup> At  $I_a$  max.

<sup>2)</sup> Without load.

<sup>3)</sup>  $U_b$  and  $T_a$  constant.

<sup>4)</sup> Of  $S_r$ .

Reduction factors

	Quasi-flush	Non-flush
<b>Note</b>	The values are reference values which may vary	
<b>St37 steel (Fe)</b>	Approx. 1	Approx. 1
<b>Stainless steel (V2A, 304)</b>	Approx. 0.78	Approx. 0.78
<b>Aluminum (Al)</b>	Approx. 0.43	Approx. 0.43
<b>Copper (Cu)</b>	Approx. 0.35	Approx. 0.37
<b>Brass (Br)</b>	Approx. 0.47	Approx. 0.40

Ordering information

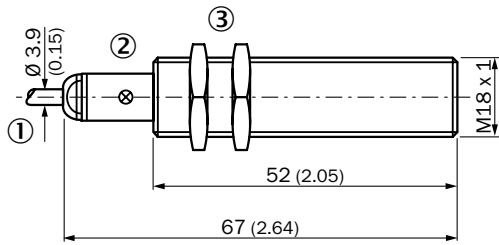
IME18

- **Electrical wiring:** DC 3-wire

Housing	Sensing range S <sub>n</sub>	Installation type	Output function	Output type	Connection	Housing	Connection diagram	Model name	Part no.
M18 x 1	12 mm	Quasi-flush	NO	NPN	Connector M12, 4-pin	Short-body	Cd-007	IME18-12BNSZC0K	1071254
						Standard	Cd-007	IME18-12BNSZC0S	1071262
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME18-12BNSZW2K	1071248
					Standard	Cd-001	IME18-12BNSZW2S	1071258	
				PNP	Connector M12, 4-pin	Short-body	Cd-007	IME18-12BPSZC0K	1071252
						Standard	Cd-007	IME18-12BPSZC0S	1071260
			Cable, 3-wire, 2 m, PVC		Short-body	Cd-001	IME18-12BPSZW2K	1071246	
				Standard	Cd-001	IME18-12BPSZW2S	1071256		
			NC	NPN	Connector M12, 4-pin	Short-body	Cd-008	IME18-12BNOZC0K	1071255
						Standard	Cd-008	IME18-12BNOZC0S	1071263
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME18-12BNOZW2K	1071249
					Standard	Cd-003	IME18-12BNOZW2S	1071259	
	PNP	Connector M12, 4-pin		Short-body	Cd-008	IME18-12BPOZC0K	1071253		
				Standard	Cd-008	IME18-12BPOZC0S	1071261		
		Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME18-12BPOZW2K	1071247			
		Standard	Cd-003	IME18-12BPOZW2S	1071257				
	20 mm	Non-flush	NO	NPN	Connector M12, 4-pin	Short-body	Cd-007	IME18-20NNSZC0K	1071271
						Standard	Cd-007	IME18-20NNSZC0S	1071279
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME18-20NNSZW2K	1071267
					Standard	Cd-001	IME18-20NNSZW2S	1071275	
				PNP	Connector M12, 4-pin	Short-body	Cd-007	IME18-20NPSZC0K	1071269
						Standard	Cd-007	IME18-20NPSZC0S	1071277
			Cable, 3-wire, 2 m, PVC		Short-body	Cd-001	IME18-20NPSZW2K	1071264	
				Standard	Cd-001	IME18-20NPSZW2S	1071273		
NC			NPN	Connector M12, 4-pin	Short-body	Cd-008	IME18-20NNOZC0K	1071272	
					Standard	Cd-008	IME18-20NNOZC0S	1071280	
				Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME18-20NNOZW2K	1071268	
				Standard	Cd-003	IME18-20NNOZW2S	1071276		
	PNP	Connector M12, 4-pin	Short-body	Cd-008	IME18-20NPOZC0K	1071270			
			Standard	Cd-008	IME18-20NPOZC0S	1071278			
Cable, 3-wire, 2 m, PVC		Short-body	Cd-003	IME18-20NPOZW2K	1071265				
	Standard	Cd-003	IME18-20NPOZW2S	1071274					

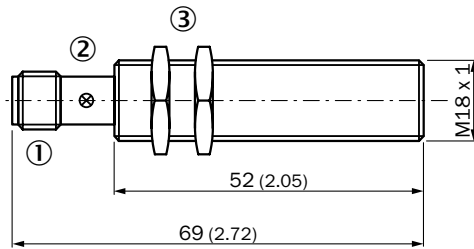
**Dimensional drawings** (Dimensions in mm (inch))

IME18 Standard, cable, flush



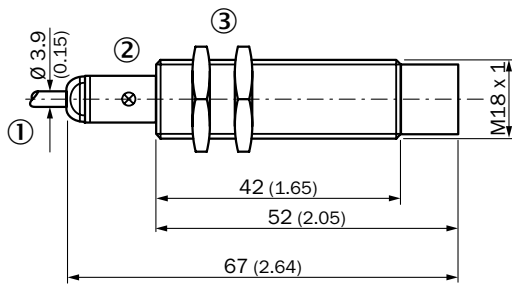
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Standard, connector, flush



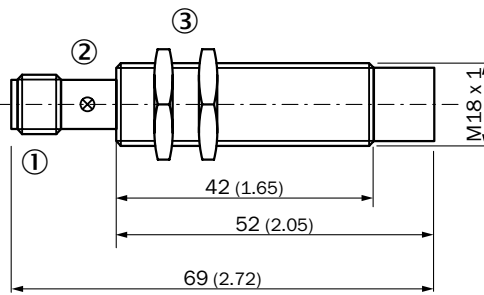
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Standard, cable, non-flush



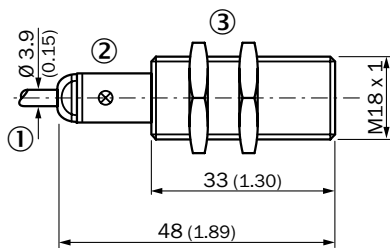
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Standard, connector, non-flush



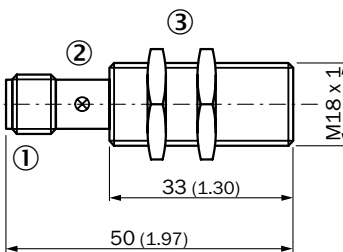
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Short-body housing, cable, flush



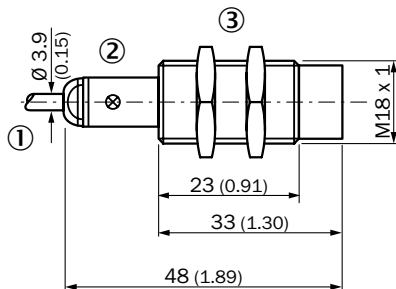
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Short-body housing, connector, flush



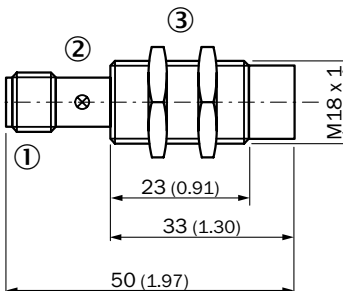
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Short-body housing, cable, non-flush



- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

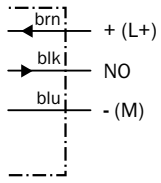
IME18 Short-body housing, connector, non-flush



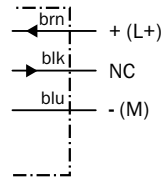
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 24 mm hex, metal

Connection diagram

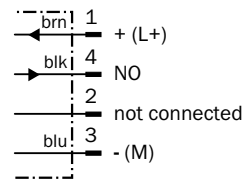
Cd-001



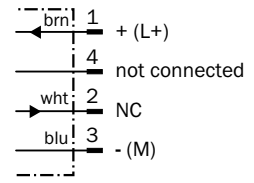
Cd-003



Cd-007

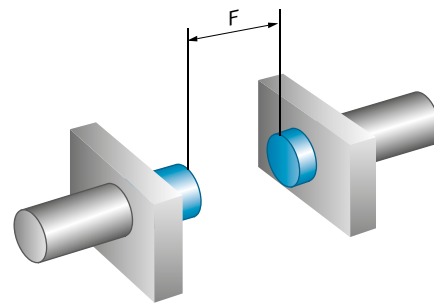
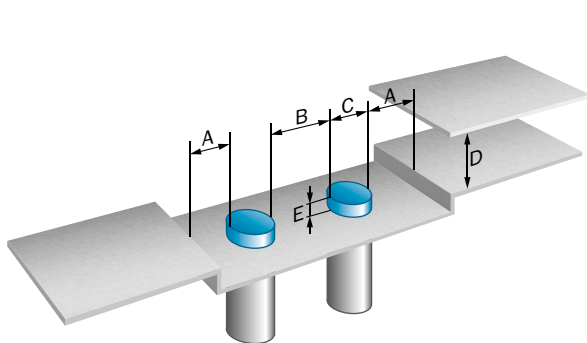


Cd-008

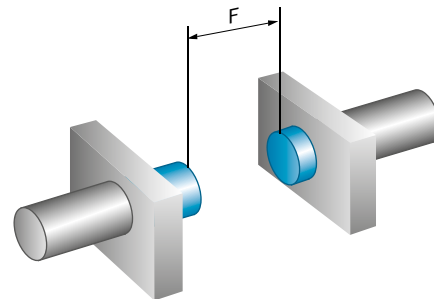
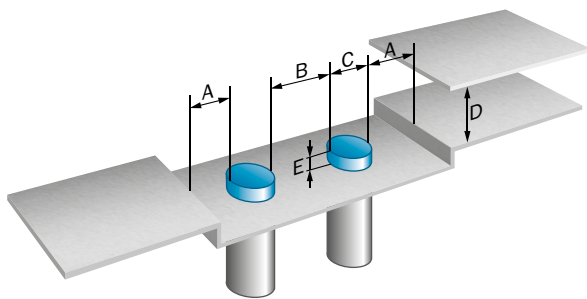


Installation note

Quasi-flush installation



Non-flush installation





Installation note

	Installation type	Sensing range Sn	A	B	C	D	E	F
IME18-12Bxxxxxx	Quasi-flush	12 mm	14 mm	35 mm	18 mm	36 mm	4 mm	120 mm
IME18-20Nxxxxxx	Non-flush	20 mm	30 mm	86 mm	18 mm	60 mm	20 mm	200 mm

## Recommended accessories

### Mounting systems

#### Mounting brackets

Figure	Material	Description	Type	Part no.
	Steel, zinc coated	Mounting plate for M18 sensors	BEF-WG-M18	5321870
		Mounting bracket, M18 thread	BEF-WN-M18	5308446



#### Terminal brackets

Figure	Material	Description	Type	Part no.
	Plastic (PA12), glass-fiber reinforced	Clamping block for round sensors M18, without fixed stop	BEF-KH-M18	2051481
		Clamping block for round sensors M18, with fixed stop	BEF-KHF-M18	2051482



### Connection systems

#### Connecting cables with female connector, M12, 4-pin

- **Cable material:** PVC
- **Connector material:** TPU

Figure	Connection type head A	Connection type head B	Connecting cable	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G02M	6009382
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G05M	6009866
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G10M	6010543
	Female connector, M12, 4-pin, angled, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W02M	6009383
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W05M	6009867
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W10M	6010541

#### Female connectors (ready to assemble), M12, 4-pin

Figure	Connection type head A	Connection type head B	Connector material	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Screw-type terminals	PA	CuZn	DOS-1204-G	6007302
	Female connector, M12, 4-pin, angled, unshielded	Screw-type terminals	PBT	CuZn	DOS-1204-W	6007303

Dimensional drawings → [page 31](#)

# THE ECONOMICAL STANDARD FOR USE IN INDUSTRIAL ENVIRONMENTS



## Product description

SICK's inductive sensors offer precise detection, less downtime, and a long service life. The IME inductive sensors pack high technology into the smallest of spaces. The integrated ASIC chip enables digital adjustment after the end of the manufacturing process. The saving of values in the ASIC ensures highly precise switching points and very high

repeatability of values – for any number of production runs. IME sensors are completely encapsulated with hot melt technology, which increases these sensors' life under shock and vibration. The customer benefits from high positioning accuracy in the machine and long-term sensor reliability.

## At a glance

- Type: M30
- Extended sensing range: 20 mm to 38 mm
- Electrical wiring: DC 3-wire
- Enclosure rating: IP 67
- Temperature range: -25 °C to 75 °C
- Nickel-plated brass housing, plastic sensing face

## Your benefits

- Reliable 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
- High level of cost-effectiveness thanks to low acquisition costs
- Comprehensive standard product portfolio
- Easy to implement customer-specific variants within the standard product portfolio



## Additional information

Detailed technical data .....25  
 Ordering information ..... 26  
 Dimensional drawings .....27  
 Connection diagram..... 28  
 Installation note ..... 29  
 Recommended accessories ..... 30

→ [www.mysick.com/en/IME30](http://www.mysick.com/en/IME30)

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.





## Detailed technical data

## Features

	Quasi-flush	Non-flush
<b>Housing</b>	Cylindrical thread design	
<b>Thread size</b>	M30 x 1.5	
<b>Sensing range <math>S_n</math></b>	20 mm	38 mm
<b>Assured sensing range <math>S_a</math></b>	16.2 mm	30.78 mm
<b>Installation type</b>	Quasi-flush	Non-flush
<b>Switching frequency</b>	200 Hz	100 Hz
<b>Output type</b>	PNP / NPN (depending on type)	
<b>Output function</b>	NO / NC (depending on type)	
<b>Electrical wiring</b>	DC 3-wire	
<b>Enclosure rating <sup>1)</sup></b>	IP 67	

<sup>1)</sup> According to EN 60529.

## Mechanics/electronics

	Quasi-flush	Non-flush
<b>Supply voltage</b>	10 V DC ... 30 V DC	
<b>Ripple</b>	≤ 10 %	
<b>Voltage drop <sup>1)</sup></b>	≤ 2 V	
<b>Current consumption</b>	≤ 10 mA	
<b>Time delay before availability</b>	≤ 200 ms	
<b>Warm-up time</b>	60 s	90 s
<b>Hysteresis</b>	1 % ... 15 %	
<b>Repeatability <sup>3) 4)</sup></b>	≤ 5 %	
<b>Temperature drift (of <math>S_r</math>)</b>	± 10 %	
<b>EMC</b>	According to EN 60947-5-2	
<b>Continuous current <math>I_a</math></b>	≤ 200 mA	
<b>Current consumption, no load</b>	≤ 10 mA	
<b>Connection type</b>	Cable, 2 m, PVC Male connector, M12 (depending on type)	
<b>Short-circuit protection</b>	✓	
<b>Reverse polarity protection</b>	✓	
<b>Power-up pulse protection</b>	✓	
<b>Shock and vibration resistance</b>	30 g, 11 ms/10 Hz ... 55 Hz, 1 mm	
<b>Ambient operating temperature</b>	-25 °C ... +75 °C	
<b>Ambient storage temperature</b>	-25 °C ... +75 °C	
<b>Housing material</b>	Metal, Nickel-plated brass	
<b>Housing cap material</b>	Plastic, PA6	
<b>Tightening torque, max.</b>	100 Nm	

<sup>1)</sup> At  $I_a$  max.

<sup>2)</sup> Without load.

<sup>3)</sup>  $U_b$  and  $T_a$  constant.

<sup>4)</sup> Of  $S_r$ .

Reduction factors

	Quasi-flush	Non-flush
<b>Note</b>	The values are reference values which may vary	
<b>St37 steel (Fe)</b>	Approx. 1	Approx. 1
<b>Stainless steel (V2A, 304)</b>	Approx. 0.78	Approx. 0.77
<b>Aluminum (Al)</b>	Approx. 0.35	Approx. 0.44
<b>Copper (Cu)</b>	Approx. 0.27	Approx. 0.37
<b>Brass (Br)</b>	Approx. 0.38	Approx. 0.46

Ordering information

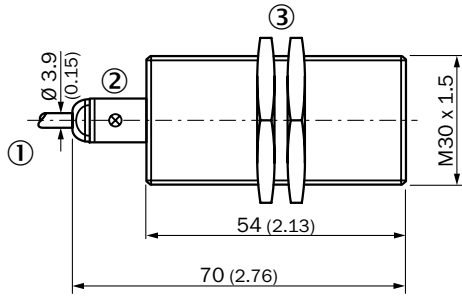
IME30

- **Electrical wiring:** DC 3-wire

Housing	Sensing range $S_n$	Installation type	Output function	Output type	Connection	Housing	Con- nection diagram	Model name	Part no.
M30 x 1.5	20 mm	Quasi-flush	NO	NPN	Connector M12, 4-pin	Short-body	Cd-007	IME30-20BNSZC0K	1071287
						Standard	Cd-007	IME30-20BNSZC0S	1071295
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME30-20BNSZW2K	1071283
					Standard	Cd-001	IME30-20BNSZW2S	1071291	
				PNP	Connector M12, 4-pin	Short-body	Cd-007	IME30-20BPSZC0K	1071285
						Standard	Cd-007	IME30-20BPSZC0S	1071293
			Cable, 3-wire, 2 m, PVC		Short-body	Cd-001	IME30-20BPSZW2K	1071281	
					Standard	Cd-001	IME30-20BPSZW2S	1071289	
			NC	NPN	Connector M12, 4-pin	Short-body	Cd-008	IME30-20BNOZC0K	1071288
						Standard	Cd-008	IME30-20BNOZC0S	1071296
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME30-20BNOZW2K	1071284
					Standard	Cd-003	IME30-20BNOZW2S	1071292	
PNP	Connector M12, 4-pin	Short-body		Cd-008	IME30-20BPOZC0K	1071286			
		Standard		Cd-008	IME30-20BPOZC0S	1071294			
	Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME30-20BPOZW2K	1071282				
		Standard	Cd-003	IME30-20BPOZW2S	1071290				
M30 x 1.5	38 mm	Non-flush	NO	NPN	Connector M12, 4-pin	Short-body	Cd-007	IME30-38NNSZC0K	1071303
						Standard	Cd-007	IME30-38NNSZC0S	1071311
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-001	IME30-38NNSZW2K	1071298
					Standard	Cd-001	IME30-38NNSZW2S	1071307	
				PNP	Connector M12, 4-pin	Short-body	Cd-007	IME30-38NPSZC0K	1071301
						Standard	Cd-007	IME30-38NPSZC0S	1071309
			Cable, 3-wire, 2 m, PVC		Short-body	Cd-001	IME30-38NPSZW2K	1071300	
					Standard	Cd-001	IME30-38NPSZW2S	1071305	
			NC	NPN	Connector M12, 4-pin	Short-body	Cd-008	IME30-38NNOZC0K	1071304
						Standard	Cd-008	IME30-38NNOZC0S	1071312
					Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME30-38NNOZW2K	1071299
					Standard	Cd-003	IME30-38NNOZW2S	1071308	
PNP	Connector M12, 4-pin	Short-body		Cd-008	IME30-38NPOZC0K	1071302			
		Standard		Cd-008	IME30-38NPOZC0S	1071310			
	Cable, 3-wire, 2 m, PVC	Short-body	Cd-003	IME30-38NPOZW2K	1071297				
		Standard	Cd-003	IME30-38NPOZW2S	1071306				

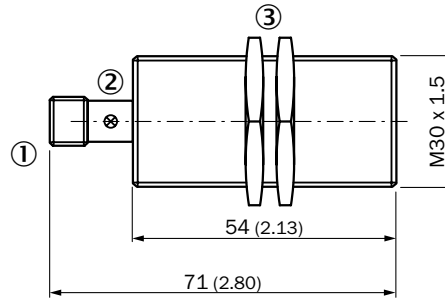
**Dimensional drawings** (Dimensions in mm (inch))

IME30 Standard, cable, flush



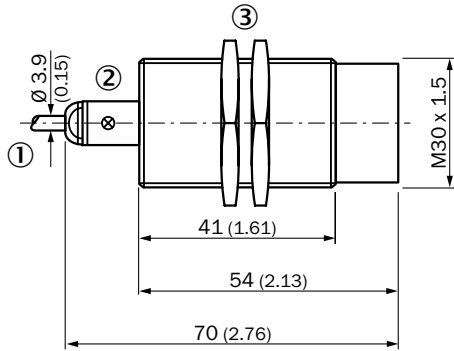
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Standard, connector, flush



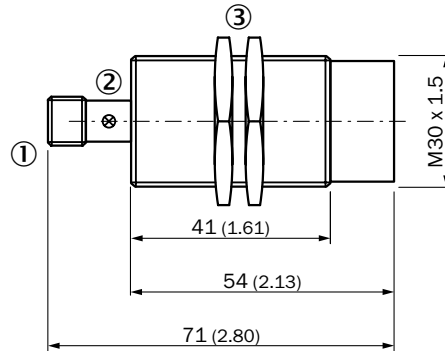
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Standard, cable, non-flush



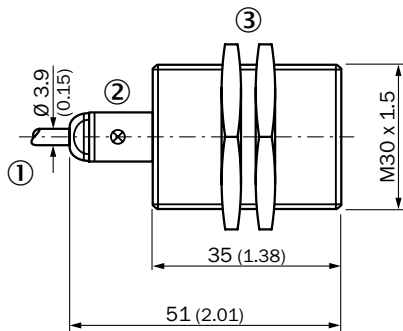
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Standard, connector, non-flush



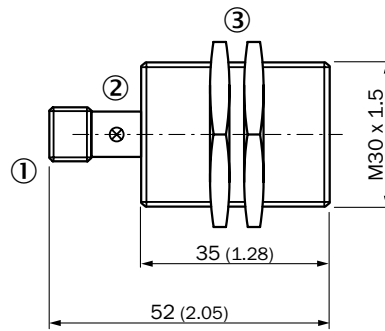
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Short-body housing, cable, flush



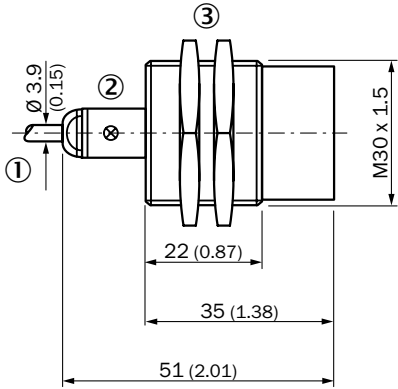
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Short-body housing, connector, flush



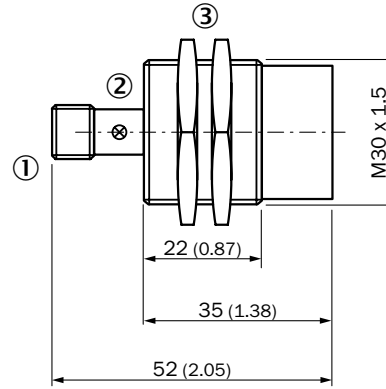
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Short-body housing, cable, non-flush



- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

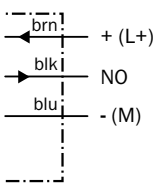
IME30 Short-body housing, connector, non-flush



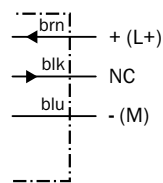
- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 36 mm hex, metal

Connection diagram

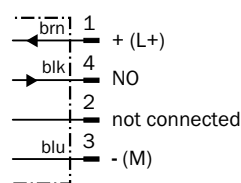
Cd-001



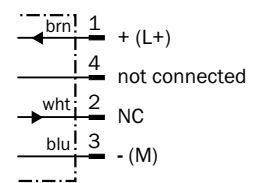
Cd-003



Cd-007

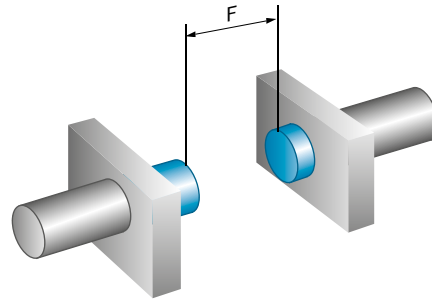
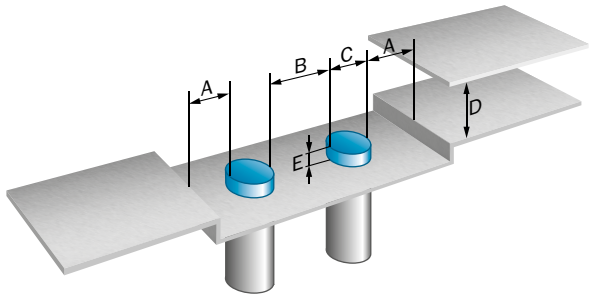


Cd-008

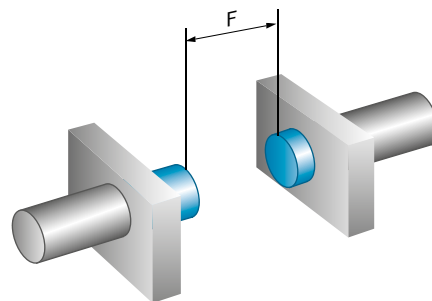
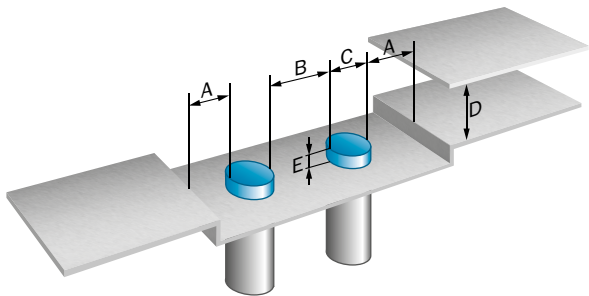


**Installation note**

Quasi-flush installation



Non-flush installation



**Installation note**

	Installation type	Sensing range Sn	A	B	C	D	E	F
IME30-20Bxxxxxx	Quasi-flush	20 mm	33 mm	80 mm	30 mm	60 mm	6 mm	200 mm
IME30-38Nxxxxxx	Non-flush	38 mm	80 mm	180 mm	30 mm	114 mm	35 mm	380 mm

Recommended accessories



Mounting systems

Universal bar clamp systems

Figure	Material	Description	Type	Part no.
	Zinc plated steel (sheet), Diecast zinc (clamp)	Plate N10 for universal clamp bracket, M30	BEF-KHS-N10	2062372

Mounting brackets and mounting plates



Mounting brackets

Figure	Material	Description	Type	Part no.
	Steel, zinc coated	Mounting plate for M30 sensors	BEF-WG-M30	5321871
		Mounting bracket, M30 thread	BEF-WN-M30	5308445



Connection systems

Connecting cables with female connector, M12, 4-pin

- **Cable material:** PVC
- **Connector material:** TPU

Figure	Connection type head A	Connection type head B	Connecting cable	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G02M	6009382
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G05M	6009866
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-G10M	6010543
	Female connector, M12, 4-pin, angled, unshielded	Cable, open conductor heads	2 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W02M	6009383
			5 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W05M	6009867
			10 m, 4-wire	CuZn, nickel-plated brass	DOL-1204-W10M	6010541

Female connectors (ready to assemble), M12, 4-pin

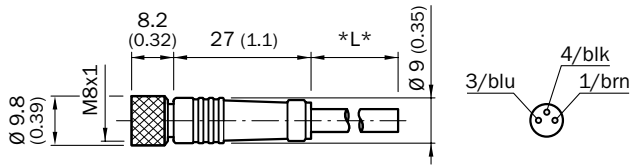
Figure	Connection type head A	Connection type head B	Connector material	Locking nut material	Type	Part no.
	Female connector, M12, 4-pin, straight, unshielded	Screw-type terminals	PA	CuZn	DOS-1204-G	6007302
	Female connector, M12, 4-pin, angled, unshielded	Screw-type terminals	PBT	CuZn	DOS-1204-W	6007303

Dimensional drawings → [page 31](#)

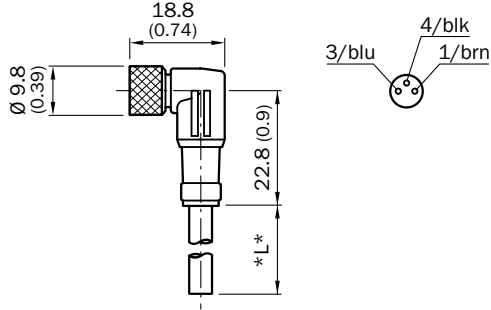
Dimensional drawings accessories

Dimensional drawings Connection systems

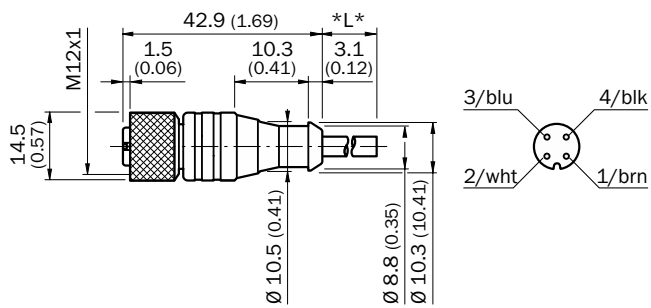
DOL-0803-GxxM



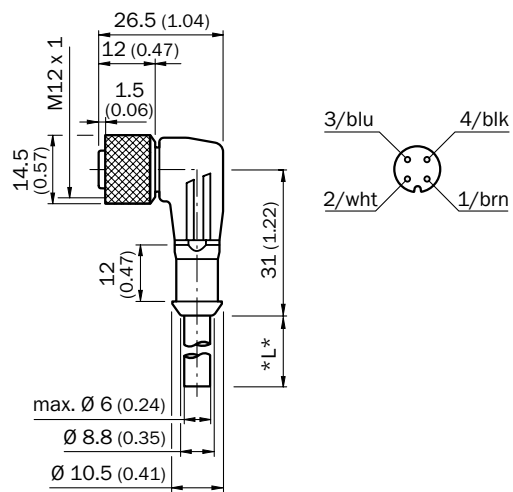
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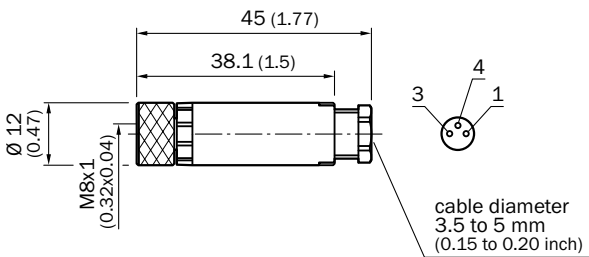
DOL-1204-G02M



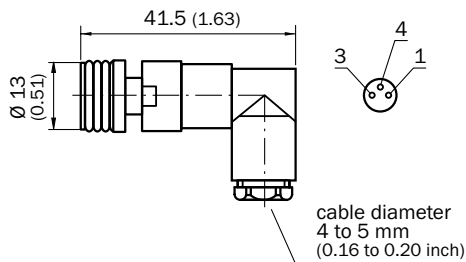
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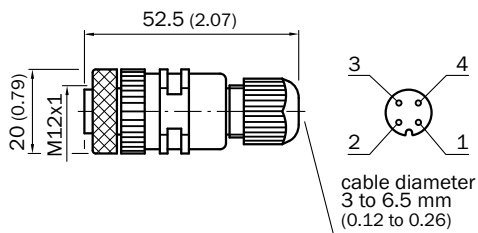
DOS-0803-G



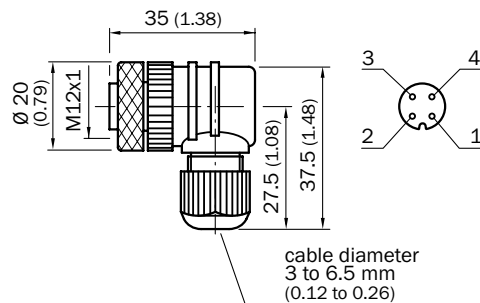
DOS-0803-W



DOS-1204-G

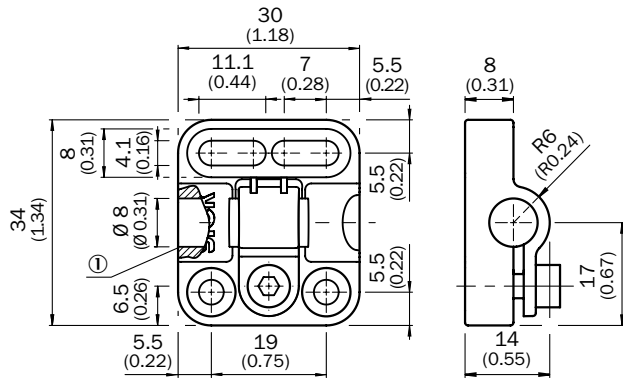


DOS-1204-W

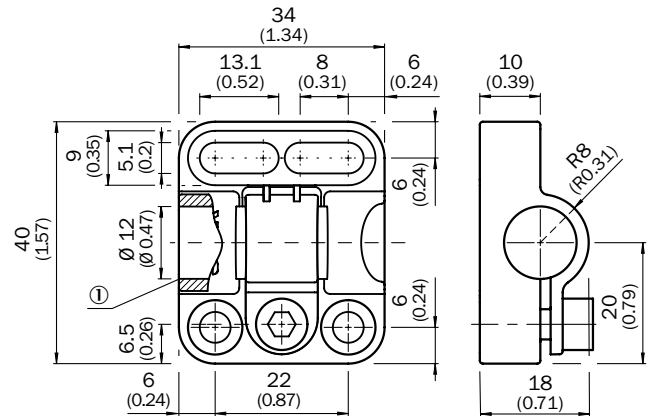


Dimensional drawings Mounting systems

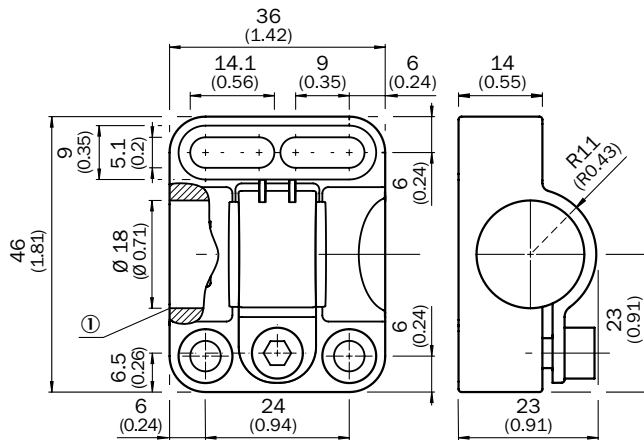
BEF-KH-M08



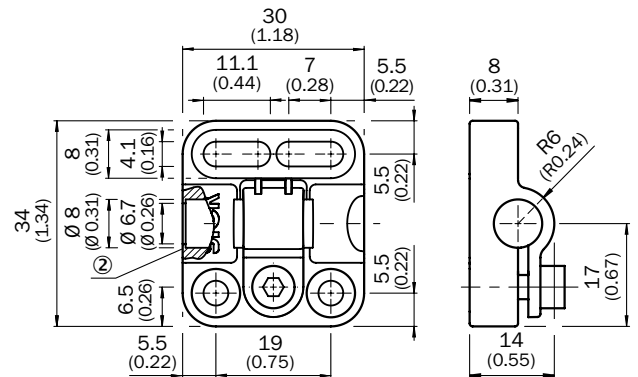
BEF-KH-M12



BEF-KH-M18

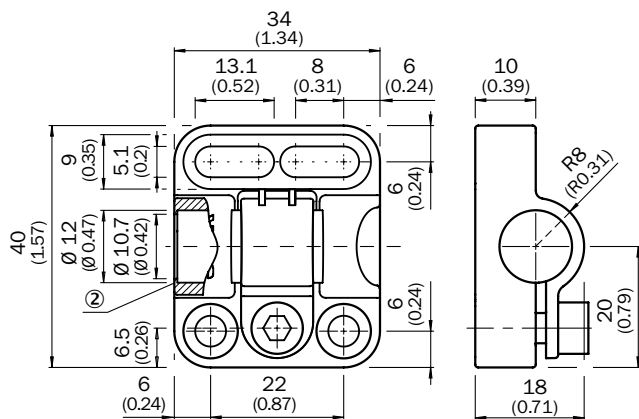


BEF-KHF-M08

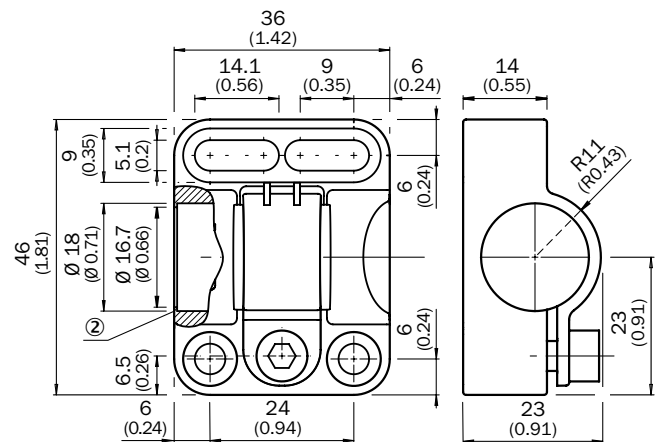


① Without fixed stop

BEF-KHF-M12



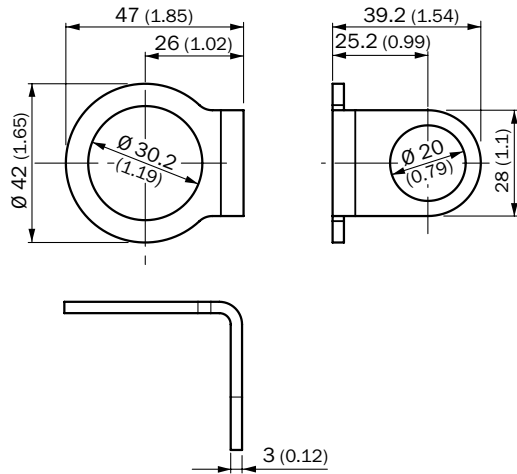
BEF-KHF-M18



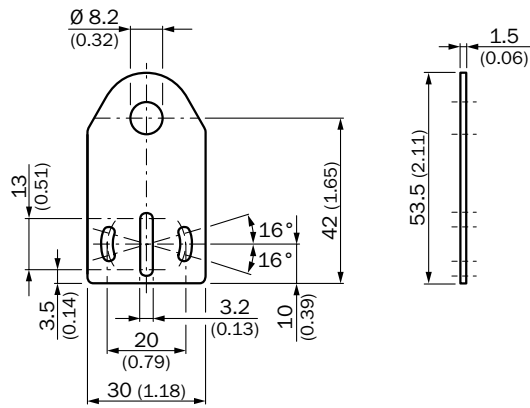
② With fixed stop



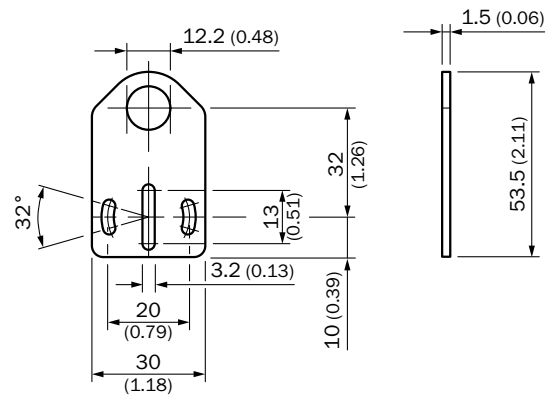
BEF-KHS-N10



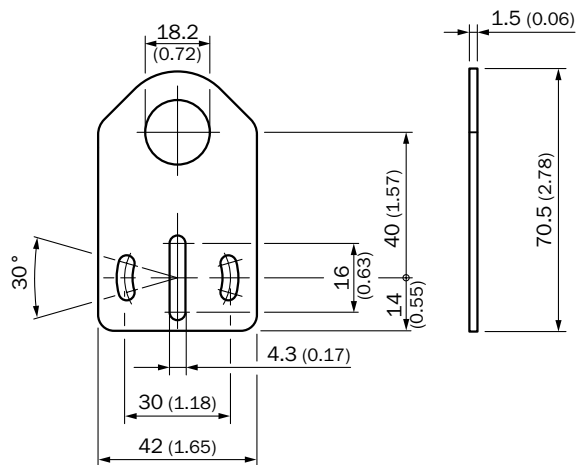
BEF-WG-M08



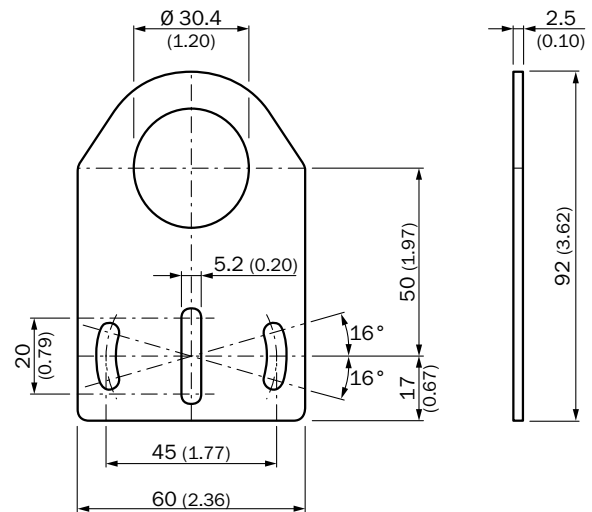
BEF-WG-M12



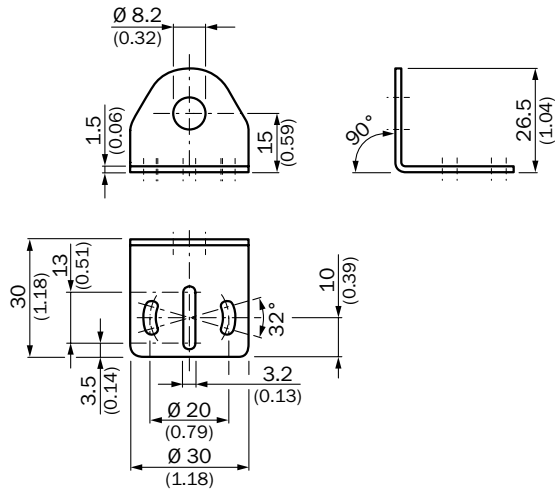
BEF-WG-M18



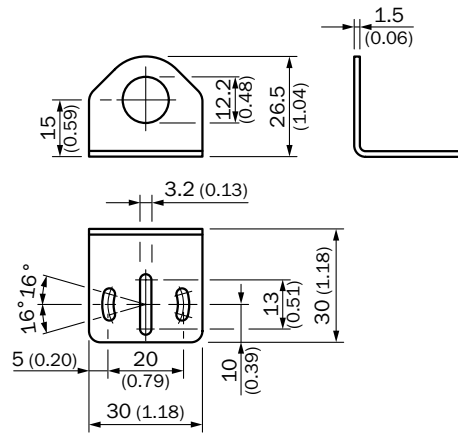
BEF-WG-M30



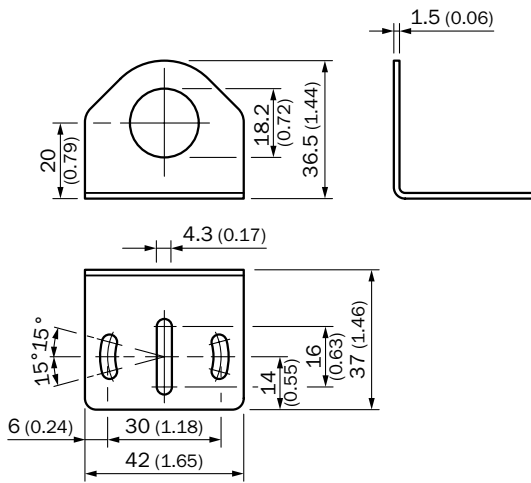
BEF-WN-M08



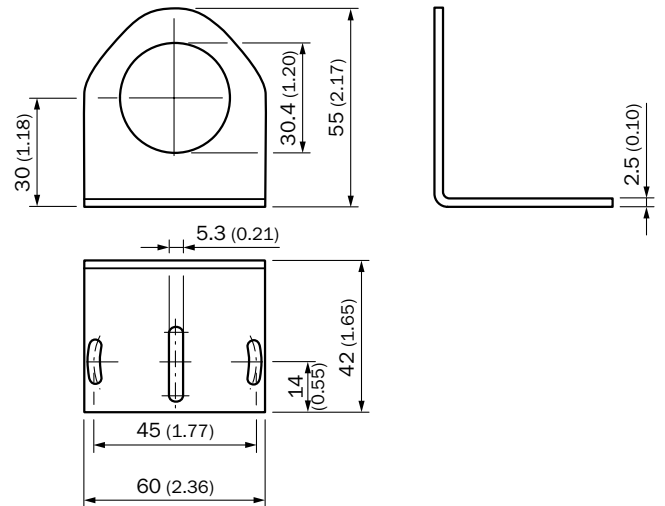
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