PRODUCT INFORMATION

IME

THE ECONOMICAL STANDARD FOR USE IN INDUSTRIAL ENVIRONMENTS

Inductive proximity sensors

SICK
Sensor Intelligence.

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

ALL GOOD THINGS COME IN THREES

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

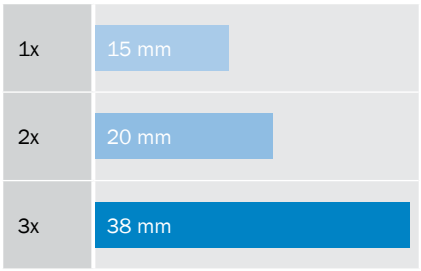
We have significantly expanded the sensing range, which means that the distance to moving objects can be increased and mechanical damage avoided. This increases the reliability of machines and systems. Whether it’s steel, stainless steel, aluminum, or copper, with the IME sensors with triple sensing range, 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. Compared to standard sensors, for the same sensing range, IME sensors require less installation space, opening up new saving potentials.

Application areas

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

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

Scanning ranges at different sensing ranges



The benefits at a glance

- Performance that pays off
- Higher machine availability
- Large operating reserve due to triple sensing range
- Lower risk of mechanical damage due to a greater distance from moving parts
- Less space required for the same sensing range when compared with standard sensors
- Easy detection of difficult devices

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	3 mm	→ 5
M08 non-flush	6 mm	→ 5
M12 quasi-flush	8 mm	→ 13
M12 non-flush	10 mm	→ 13
M18 quasi-flush	12 mm	→ 19
M18 non-flush	20 mm	→ 19
M30 quasi-flush	20 mm	→ 25
M30 non-flush	38 mm	→ 25

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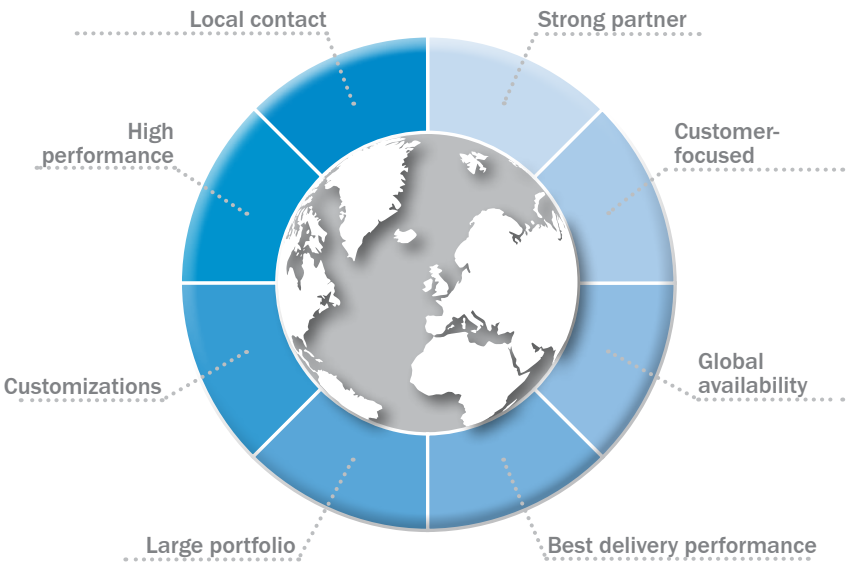
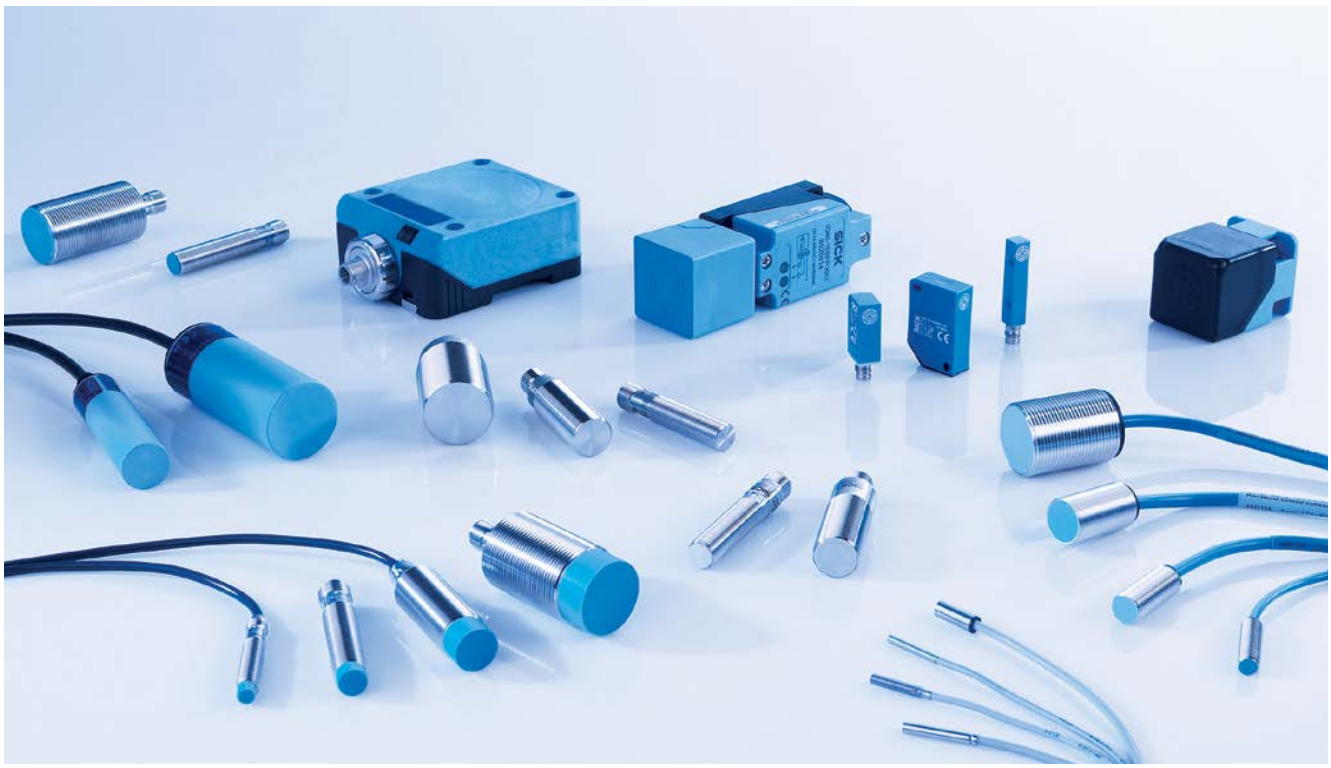
SICK – WE HAVE UNDERSTOOD

In addition to their high performance, the inductive sensors by SICK are simply perfect all-rounders. Global availability, optimum delivery performance and a large portfolio characterize the inductive sensors – and make SICK the right partner.

If the right sensor is not available despite the large product range, customizations provide an even higher degree of flexibility. Our aim is give you the right sensor for your application – at the right time.

Even when it is a tricky task. Thanks to a global support network in over 88 countries, SICK can always work with you to find a solution.





As a major player in automation technology, partnership with SICK offers a variety of benefits. We are committed to driving innovation in the industry, even in areas neglected by others – and we want to do this on a global scale in 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 will always create a solution which adds 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

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Installation note 9
Recommended accessories 10

→ 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.

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Detailed technical data

Features

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

[1] According to EN 60529.

Mechanics/electronics

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

[1] At I_a max.
[2] Without load.
[3] Ub and Ta constant.
[4] Of Sr.

Reduction factors

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

Ordering information

IME08

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

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Housing	Connection diagram	Model name	Part no.
M8 x 1	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
						Standard	Cd-001	IME08-03BPSZW2S	1074042
			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
						Standard	Cd-003	IME08-03BPOZW2S	1074043

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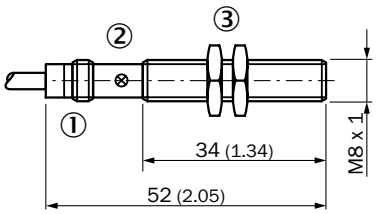
Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Housing	Connection diagram	Model name	Part no.
M8 x 1	6 mm	Non-flush	NO	NPN	Connector M8, 3-pin	Short-body	Cd-002	IME08-06NNSZT0K	1071202
						Standard	Cd-002	IME08-06NNSZT0S	1071210
					Cable, 3-wire, 2 m, PVC	Short-body	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	1071200
						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	1071201
						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

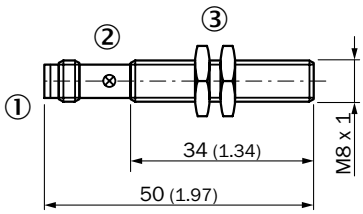
Dimensional drawings (Dimensions in mm (inch))

IME08 Standard, cable, flush



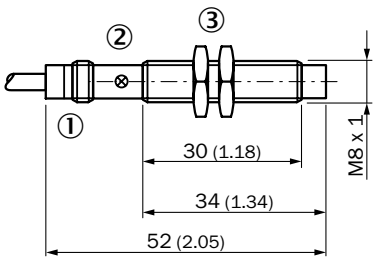
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector, flush



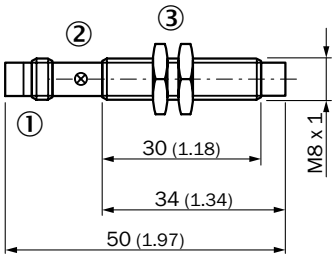
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, cable, non-flush



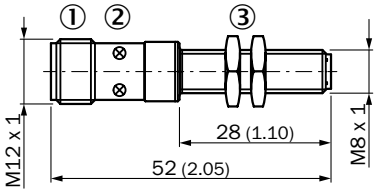
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector, non-flush



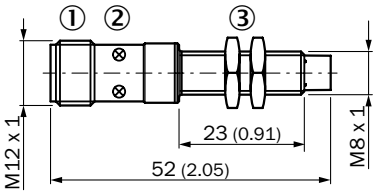
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector, M12, flush



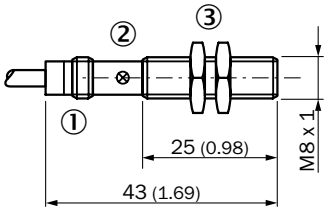
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Standard, connector M12, non-flush



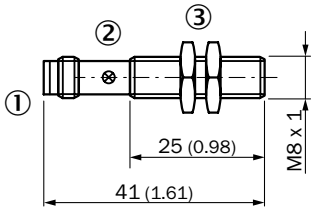
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Short-body housing, cable, flush



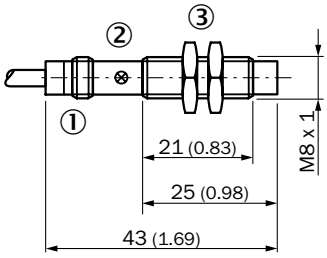
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Short-body housing, connector, flush



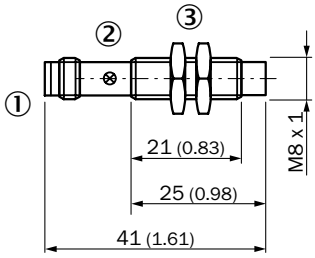
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

IME08 Short-body housing, cable, non-flush



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

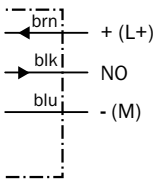
IME08 Short-body housing, connector, non-flush



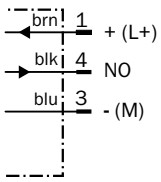
① Connection
② Status LED
③ Fastening nuts (2 x); width across 13, metal

Connection diagram

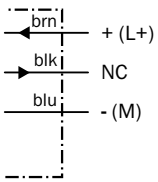
Cd-001



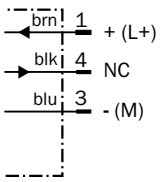
Cd-002



Cd-003



Cd-004



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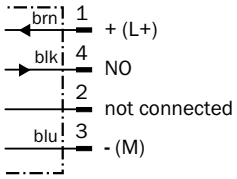
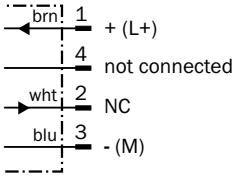
Cd-007

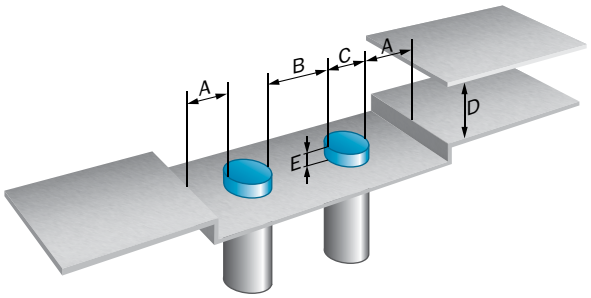


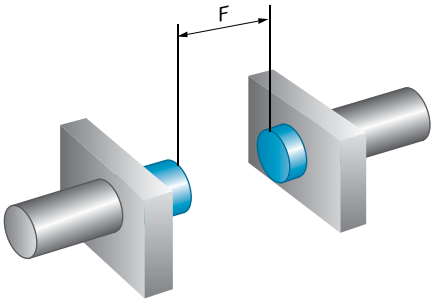
Cd-008



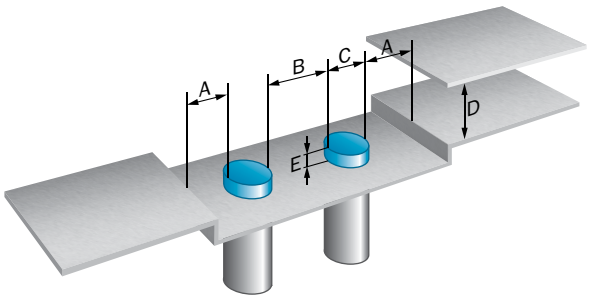
Installation note

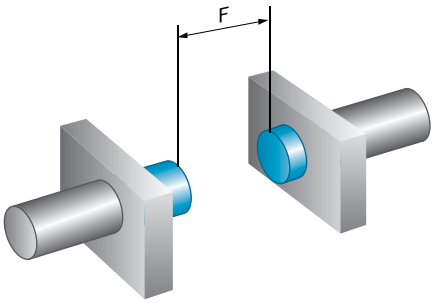
Quasi-flush installation





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
IME08-06Nxxxxxx	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

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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

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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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Recommended accessories 17

→ 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.

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Detailed technical data

Features

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

[1] According to EN 60529.

Mechanics/electronics

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

[1] At I_a max.
[2] Without load.
[3] Ub and Ta constant.
[4] Of Sr.

Reduction factors

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

Ordering information

IME12

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

Housing	Sensing range S_n	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

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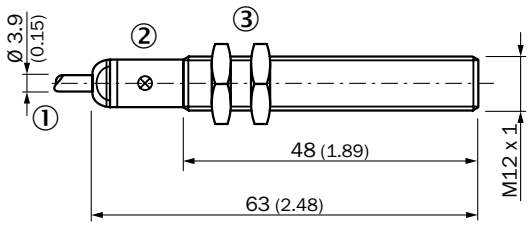
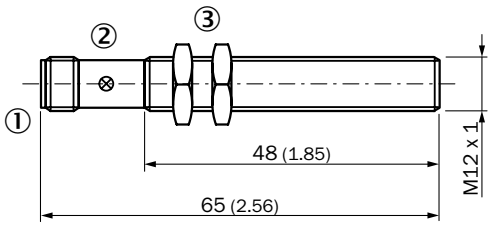
Dimensional drawings (Dimensions in mm (inch))

IME12 Standard, cable, flush



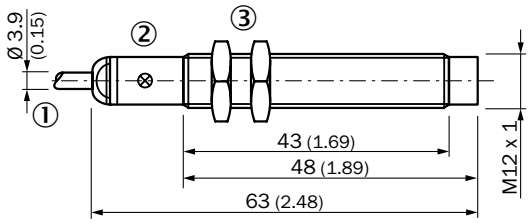
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

IME12 Standard, connector, flush



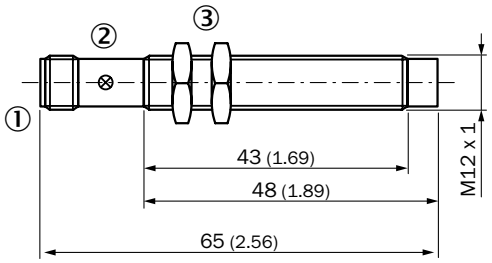
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

IME12 Standard, cable, non-flush



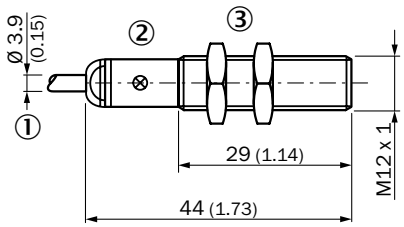
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

IME12 Standard, connector, non-flush



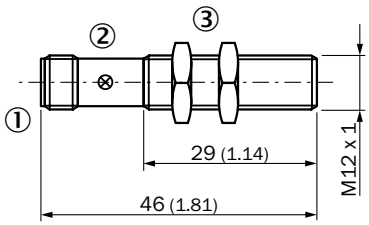
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

IME12 Short-body housing, cable, flush



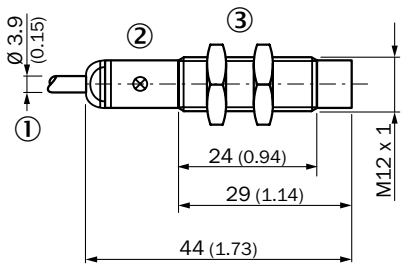
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

IME12 Short-body housing, connector, flush



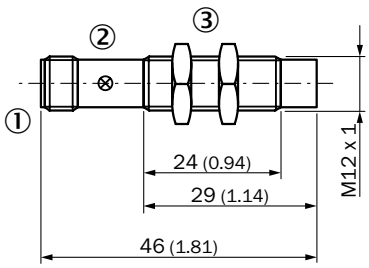
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

IME12 Short-body housing, cable, non-flush



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

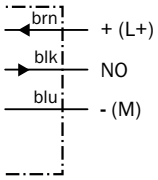
IME12 Short-body housing, connector, non-flush



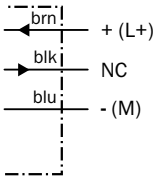
① Connection
② Status LED
③ Fastening nuts (2 x); width across 17, metal

Connection diagram

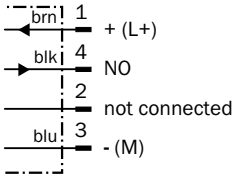
Cd-001



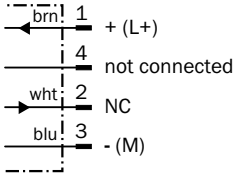
Cd-003



Cd-007

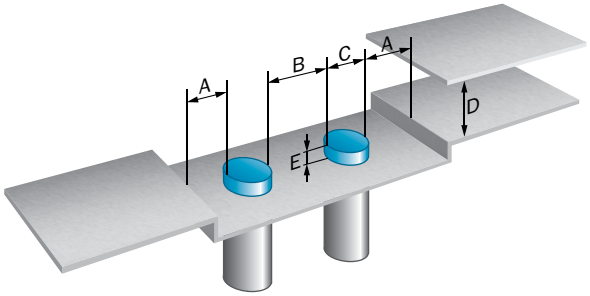


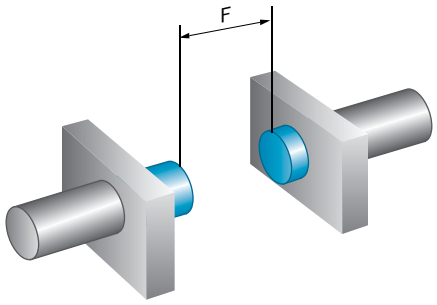
Cd-008



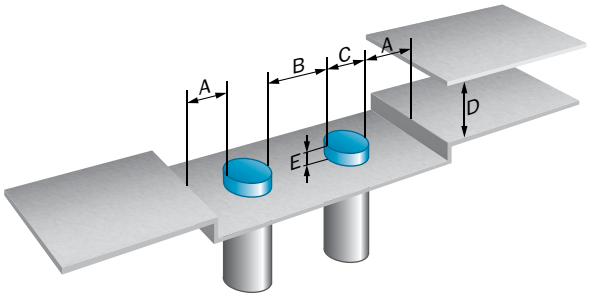
Installation note

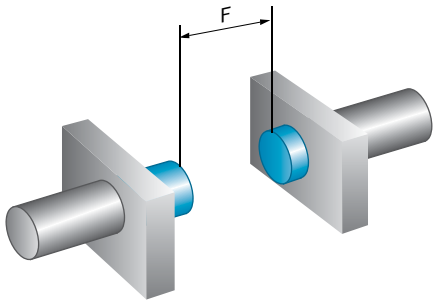
Quasi-flush installation





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

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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

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.

8018403/2015-07-20
Subject to change without notice

Detailed technical data

Features

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

[1] According to EN 60529.

Mechanics/electronics

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

[1] At I_a max.
[2] Without load.
[3] Ub and Ta constant.
[4] Of Sr.

Reduction factors

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

Ordering information

IME18

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

Housing	Sensing range S_n	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

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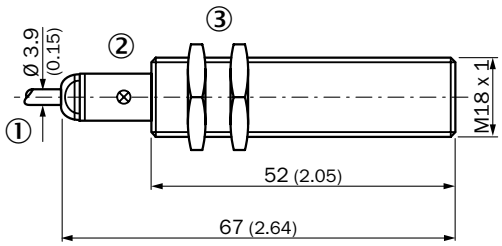
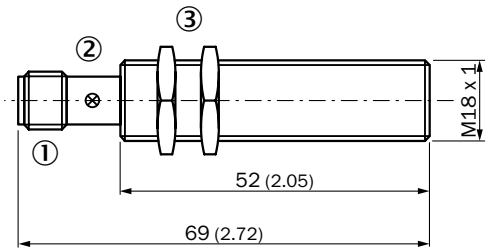
Dimensional drawings (Dimensions in mm (inch))

IME18 Standard, cable, flush



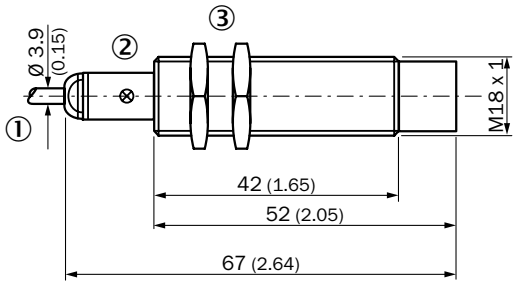
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Standard, connector, flush



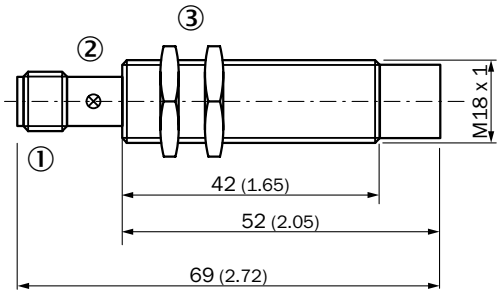
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Standard, cable, non-flush



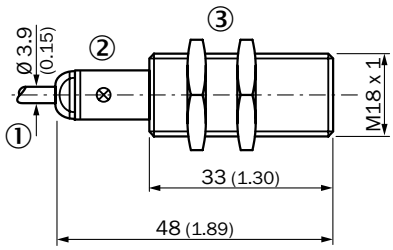
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Standard, connector, non-flush



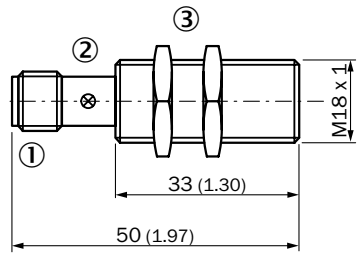
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Short-body housing, cable, flush



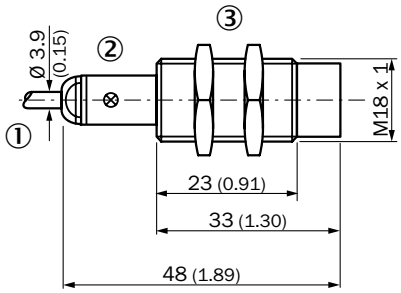
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Short-body housing, connector, flush



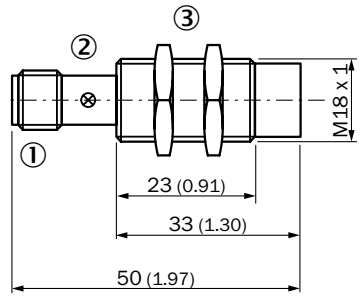
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

IME18 Short-body housing, cable, non-flush



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

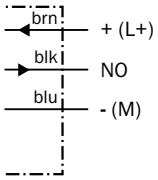
IME18 Short-body housing, connector, non-flush



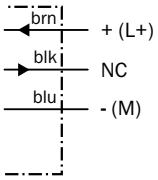
① Connection
② Status LED
③ Fastening nuts (2 x); 24 mm hex, metal

Connection diagram

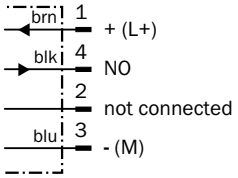
Cd-001



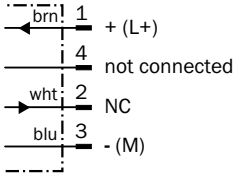
Cd-003



Cd-007

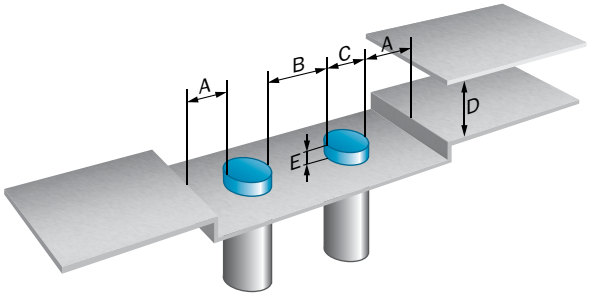


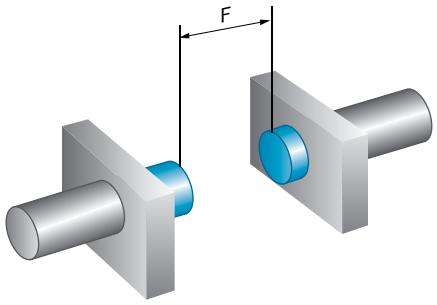
Cd-008



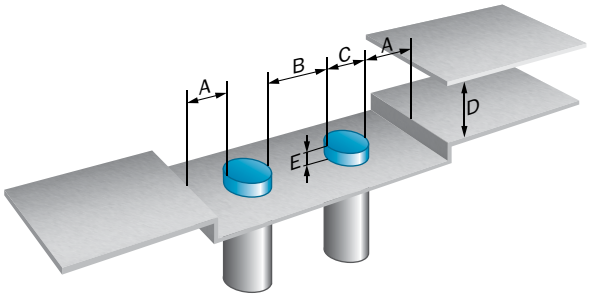
Installation note

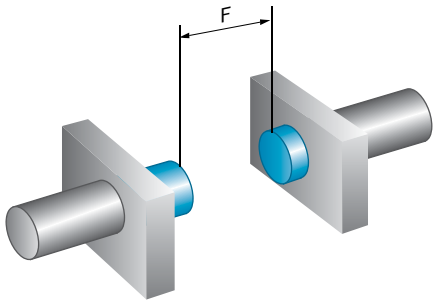
Quasi-flush installation





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

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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

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.

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Detailed technical data

Features

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

[1] According to EN 60529.

Mechanics/electronics

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

[1] At I_a max.
[2] Without load.
[3] Ub and Ta constant.
[4] Of Sr.

Reduction factors

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

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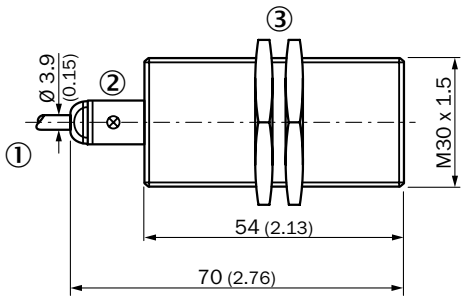
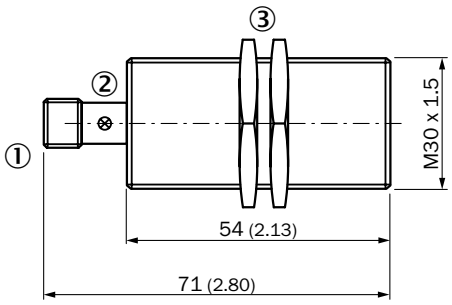
Dimensional drawings (Dimensions in mm (inch))

IME30 Standard, cable, flush



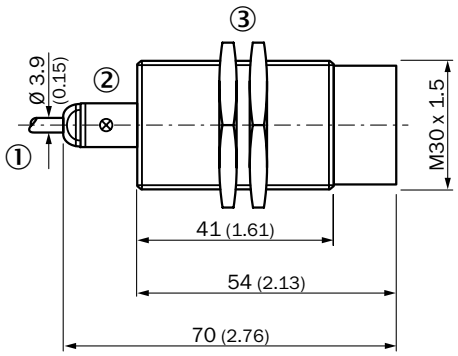
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Standard, connector, flush



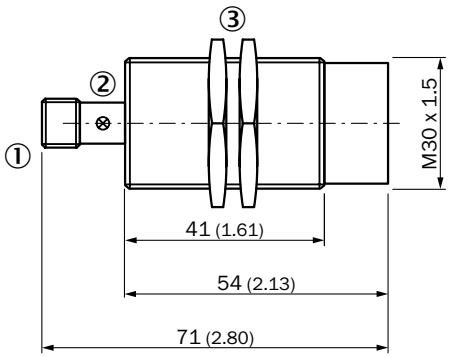
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Standard, cable, non-flush



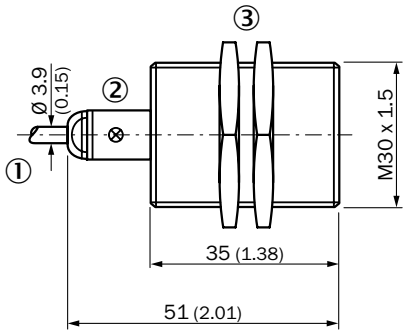
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Standard, connector, non-flush



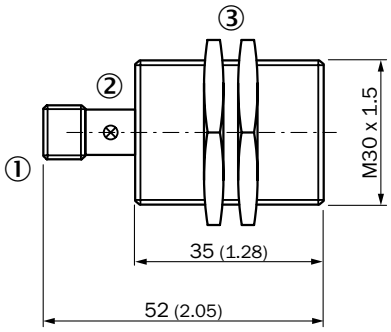
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Short-body housing, cable, flush



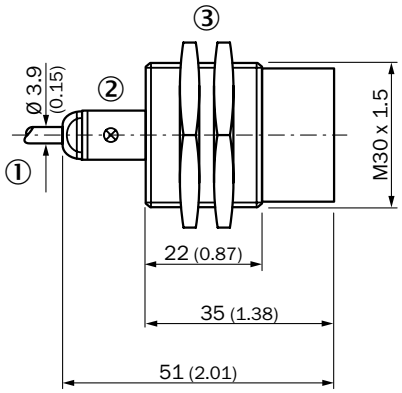
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Short-body housing, connector, flush



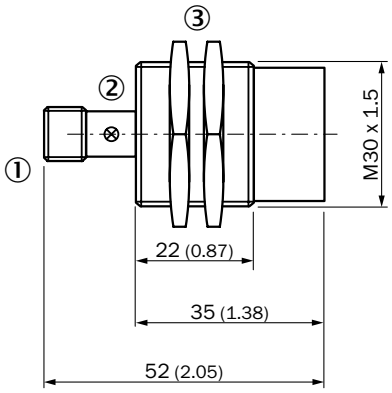
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

IME30 Short-body housing, cable, non-flush



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

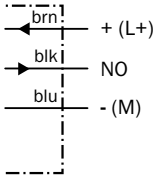
IME30 Short-body housing, connector, non-flush



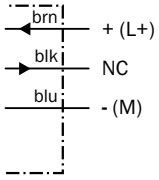
① Connection
② Status LED
③ Fastening nuts (2 x); 36 mm hex, metal

Connection diagram

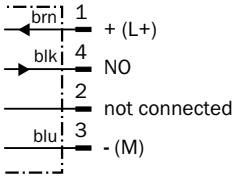
Cd-001



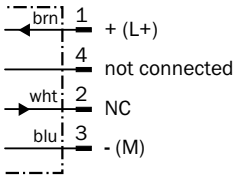
Cd-003



Cd-007



Cd-008



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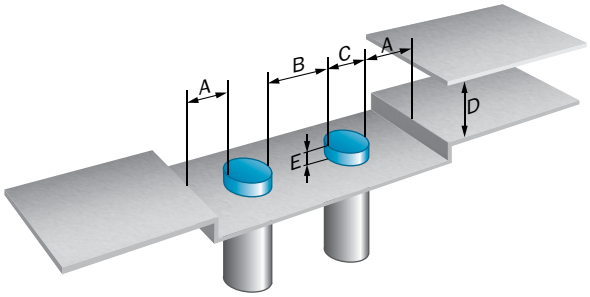
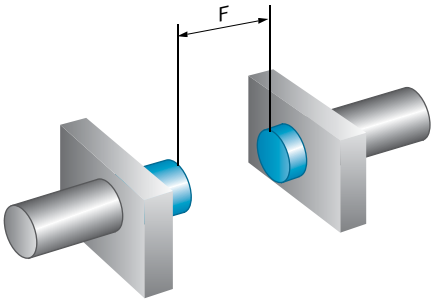
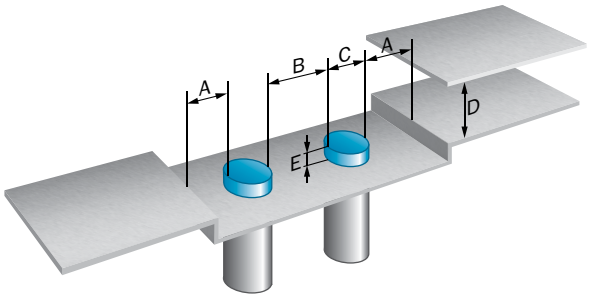
Installation note

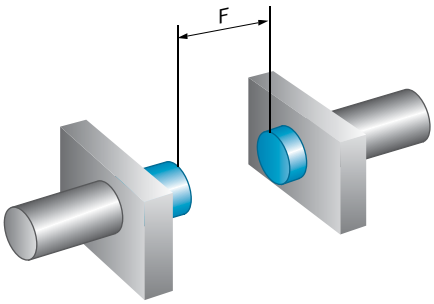
Quasi-flush installation





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

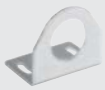
Mounting systems

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

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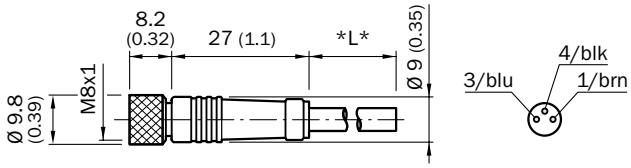
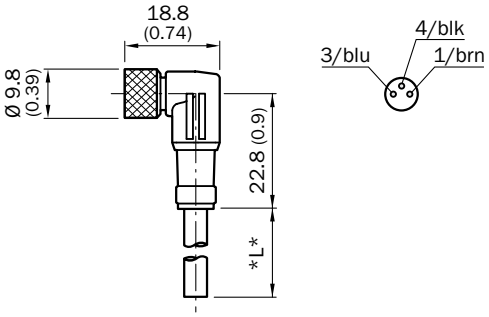
Dimensional drawings accessories

Dimensional drawings Connection systems

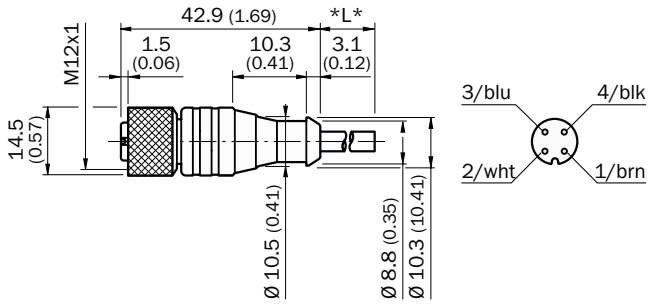
DOL-0803-GxxM



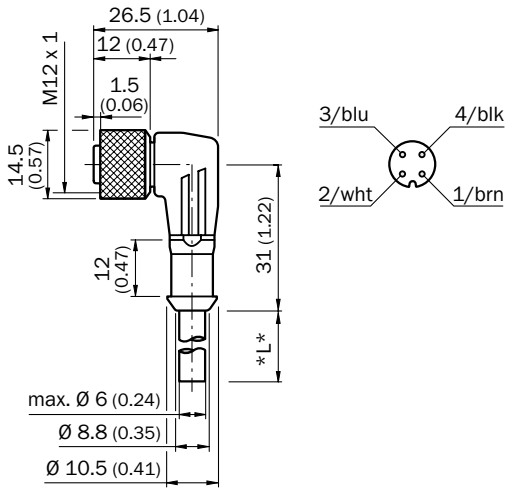
DOL-0803-WxxM



DOL-1204-G02M



DOL-1204-W02M



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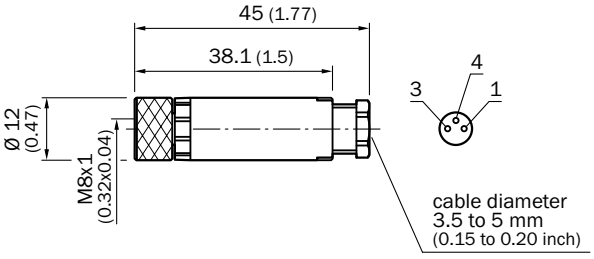

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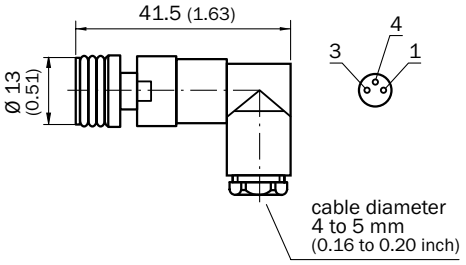

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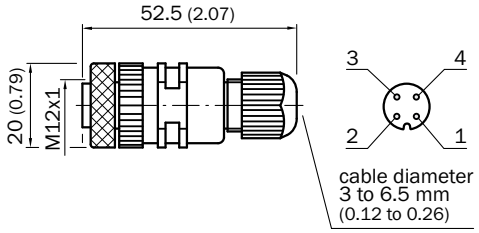

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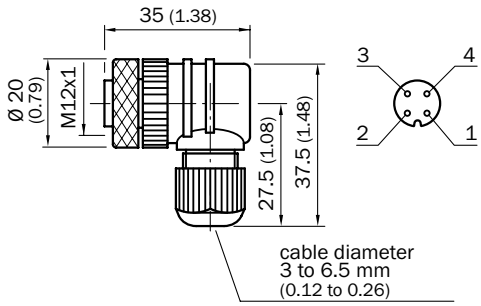
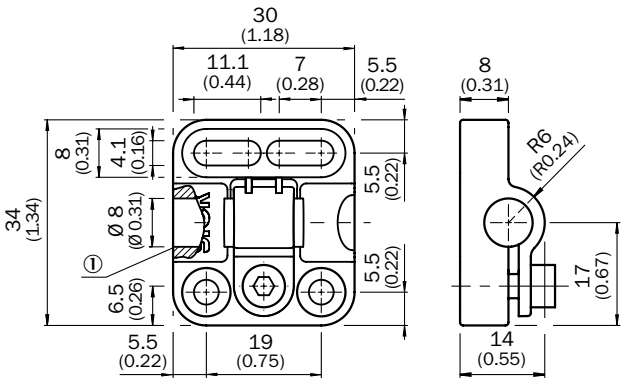


Dimensional drawings Mounting systems

BEF-KH-M08



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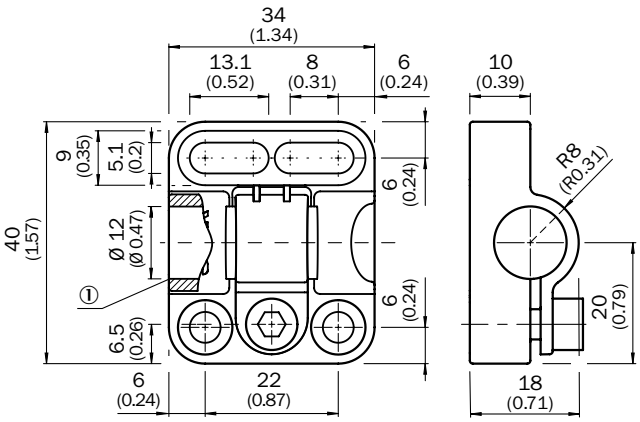

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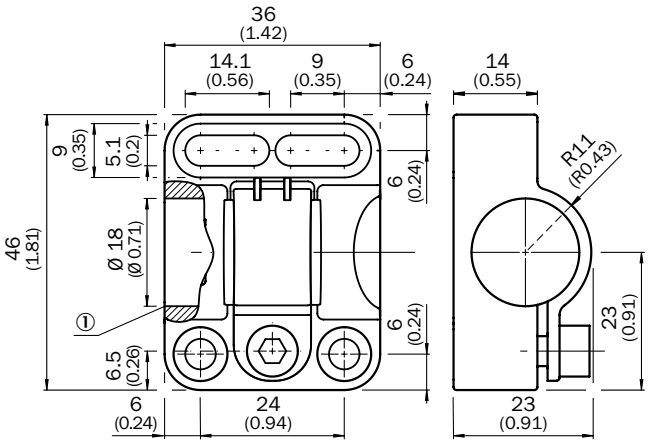

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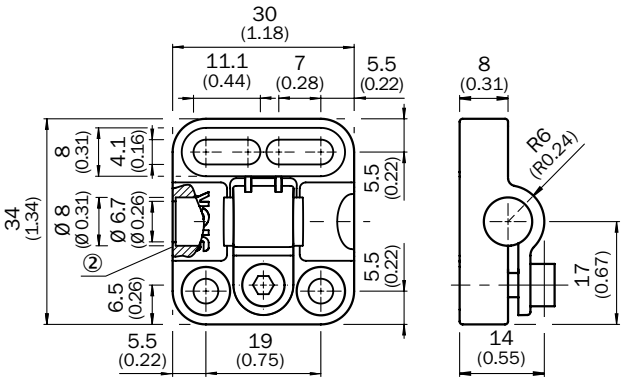
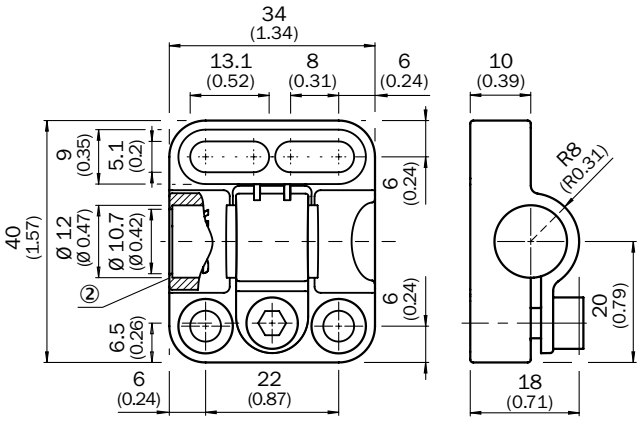


① Without fixed stop

BEF-KHF-M12



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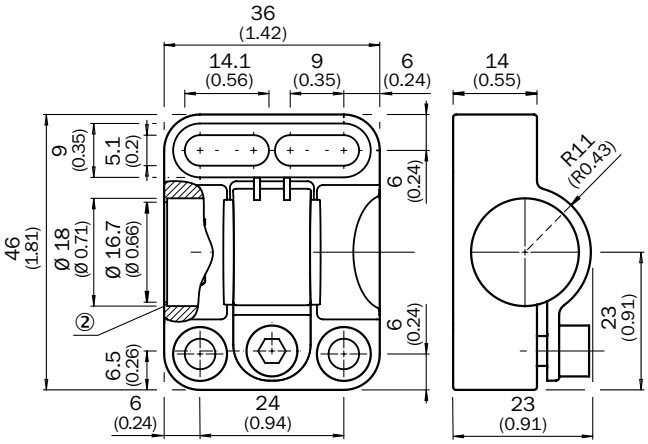

② With fixed stop

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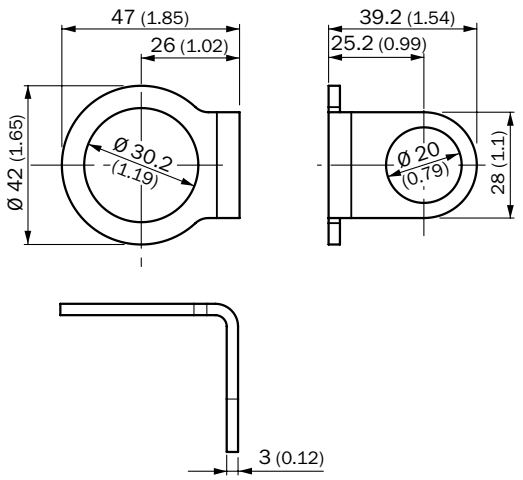
Subject to change without notice

BEF-KHS-N10



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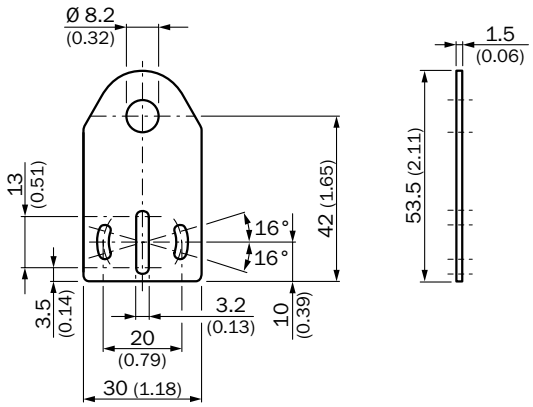

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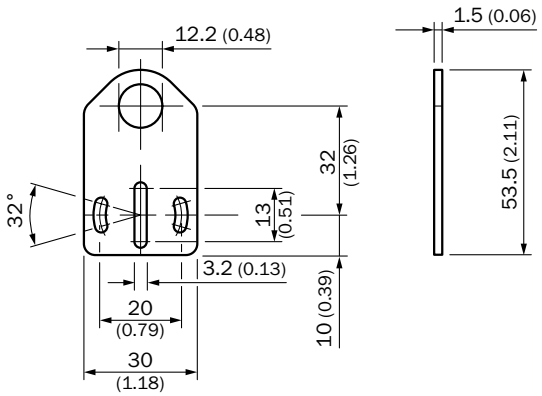

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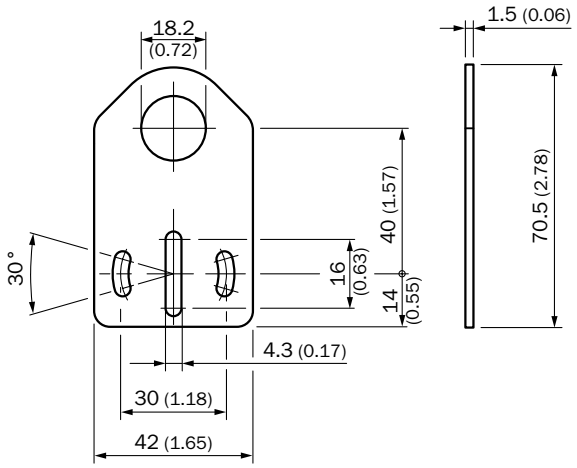

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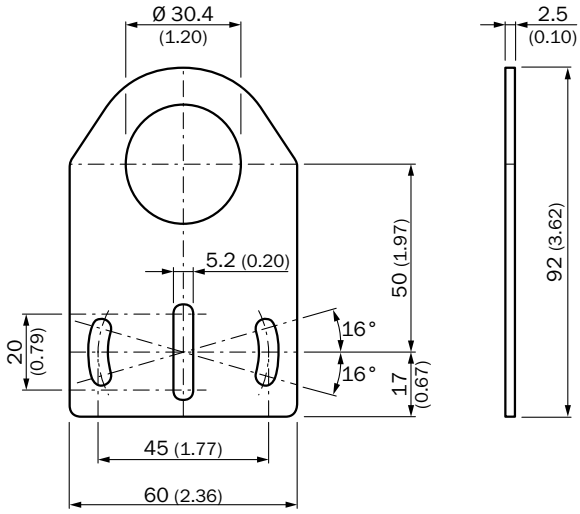

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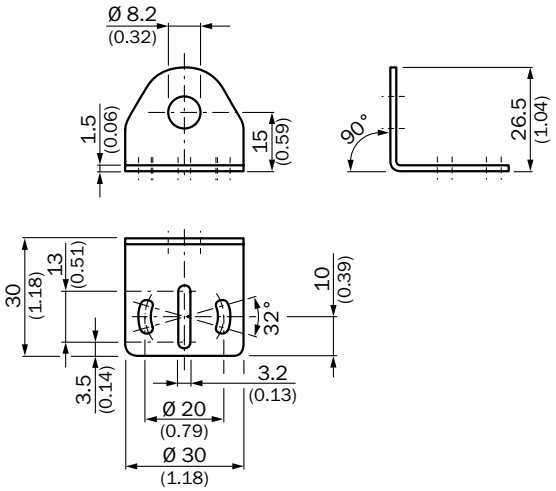

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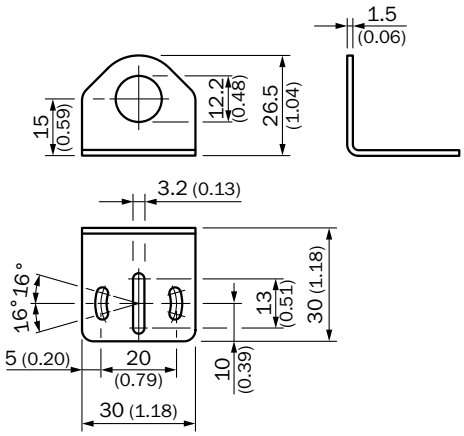

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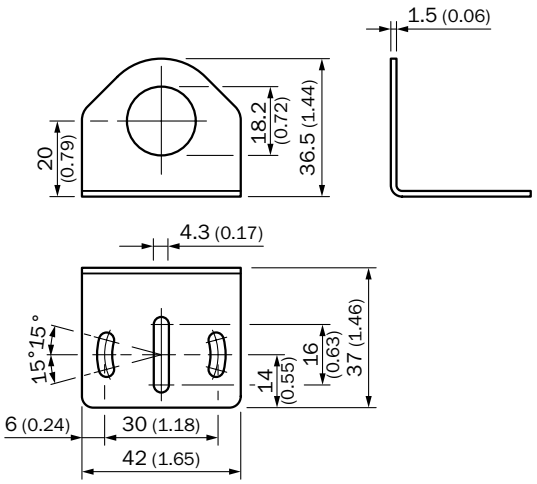

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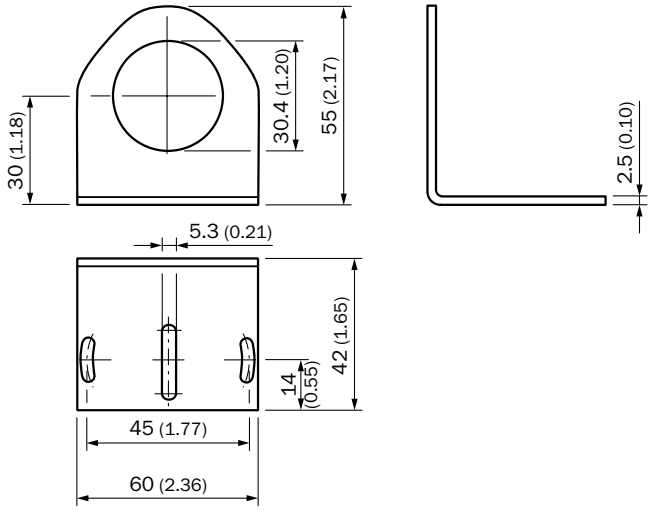

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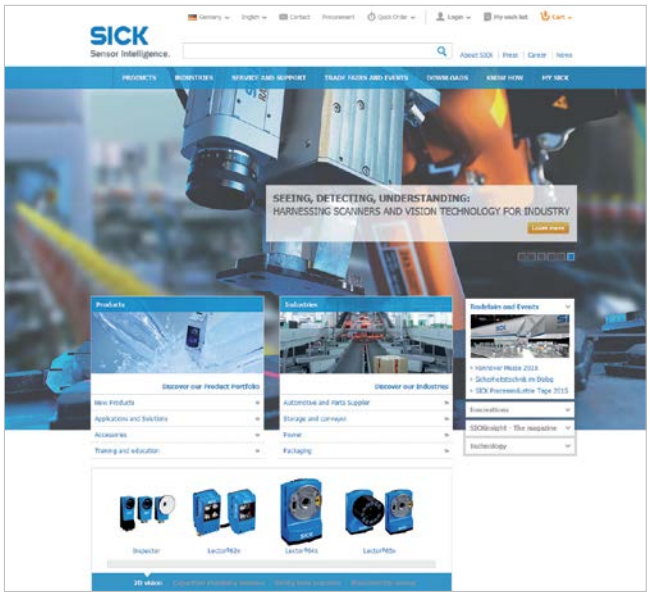

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