



## IMP High Pressure

High pressure resistant sensors for hydraulic applications

M5 high pressure resistant sensors for compact spaces



**Product description**

The compact M5 sensors of the IMP family are resistant to high pressure up to 500 bar and reliably detect the end of stroke position on hydraulic cylinders or valve positions. They fulfill even the highest of requirements, such as fields of application up to 100 °C. State-of-the-art ASIC and manufacturing technolo-

gies from SICK enable a high level of miniaturization. Optimized for restricted installation conditions and designed to take up minimal space, the sensors in model M5 offer high performance in a small format and boast an impressive sensing range of up to 1 mm.

**At a glance**

- Pressure resistant up to 500 bar
- Expected service life of up to 1 million pressure cycles
- Expanded temperature range of up to 100 °C
- Sensing range of 1 mm flush
- IP 68
- Stainless steel housing with active surface made from stable high-performance ceramic
- State-of-the-art ASIC technology from SICK
- Gas-tight at the sensor face

**Your benefits**

- Reduced maintenance costs
- Extremely resilient and durable
- Up to 50 times longer service life compared to conventional sensors under pressure cycles
- Simple compensation of cylinder tolerances
- Simple integration due to small design
- Controlled piston deceleration
- Increased piston service life due to collision prevention at the end of the work cycle



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→ [www.mysick.com/en/IMP05](http://www.mysick.com/en/IMP05)

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

Housing	Cylindrical
Thread size	M5 x 0.5
Pressure resistance	≤ 500 bar
Sensing range $S_n$	1 mm
Assured sensing range $S_a$	0.8 mm
Installation type	Flush
Switching frequency	1,000 Hz
Output type	PNP / NPN (depending on type)
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating <sup>1)</sup>	IP 68

<sup>1)</sup> Sensing face.

### Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple <sup>1)</sup>	≤ 20 %
Voltage drop <sup>2)</sup>	≤ 2 V
Current consumption <sup>3)</sup>	≤ 10 mA
Time delay before availability	≤ 30 ms
Hysteresis <sup>4)</sup>	1 % ... 15 %
Repeatability	≤ 5 %
Temperature drift (% of $S_r$ )	± 10 % <sup>5)</sup> ± 15 % <sup>6)</sup>
EMC	According to EN 60947-5-2
Output current $I_a$	≤ 200 mA
Vacuum resistance <sup>7)</sup>	10 <sup>-8</sup> Torr
Size support ring	7.5 mm x 4.4 mm x 1 mm
Connection type	Cable, 2 m, PUR
Short-circuit protection	✓
Reverse polarity protection	✓
Shock/vibration	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +100 °C
Housing material	Stainless steel, Phynox
Housing cap material	Ceramics, ZrO2
Material support ring	FPM
Tightening torque, max.	≤ 5 Nm

<sup>1)</sup> Of  $V_S$ .

<sup>2)</sup> With  $I_a = 200$  mA.

<sup>3)</sup> Without load.

<sup>4)</sup> Typ. 8%.

<sup>5)</sup> -25 °C...+70 °C.

<sup>6)</sup> +70 °C...+100 °C.

<sup>7)</sup> Front.

Reduction factors

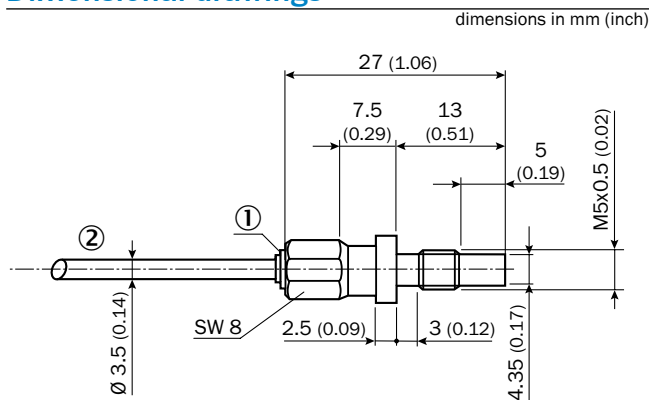
Carbon steel St37 (Fe)	1
Stainless steel (V2A, 304)	0
Aluminum (Al)	0
Copper (Cu)	0
Brass (Br)	0

Ordering information

- Sensing range  $S_n$ : 1 mm
- Installation type: flush
- Output function: NO
- Connection diagram: cd-001

Output type	Connection	Model name	Part no.
PNP	Cable, 3-wire, 2 m, PUR	IMP05-01BPSVU2S	6050109
NPN	Cable, 3-wire, 2 m, PUR	IMP05-01BNSVU2S	6050110

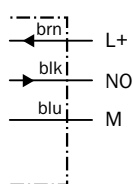
Dimensional drawings



- ① LED indicator
- ② Cable, 3-wire

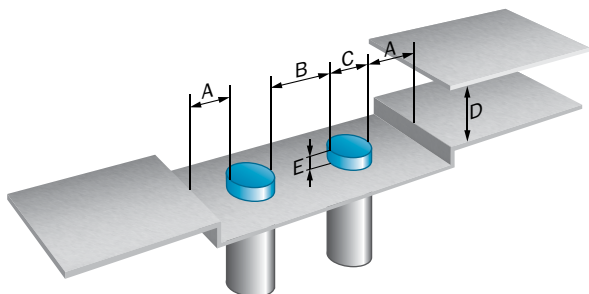
Connection diagram

Cd-001

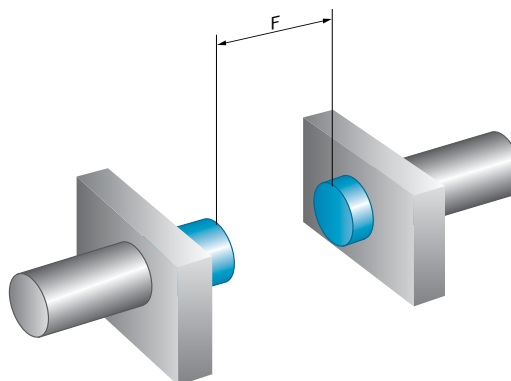


Installation note

Non-flush installation



Opposite installation



	A	B	C	D	E	F
IMP05	1.5	5	5	3	0	8



M8 high pressure resistant sensors for high demands



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**Product description**

State-of-the-art ASIC and manufacturing technologies from SICK are the foundation for the M8 IMP high-pressure-resistant sensor family. Ideally suited for high demands, these sensors have impressive pressure resistance of up to 500 bar and an expanded temperature

range of up to 100 °C. The combination of rugged stainless steel housing and an active high-performance ceramic surface ensures the longest possible use. With a service life of up to 1 million pressure cycles, these sensors fulfill even the highest demands.

**At a glance**

- Pressure resistant up to 500 bar
- Expected service life of up to 1 million pressure cycles
- Expanded temperature range of up to 100 °C
- Sensing range of 1.5 mm flush
- IP 68
- Stainless steel housing with active surface made from stable high-performance ceramic
- State-of-the-art ASIC technology from SICK
- Gas-tight at the sensor face

**Your benefits**

- Reduced maintenance costs
- Extremely resilient and durable
- Up to 50 times longer service life compared to conventional sensors under pressure cycles
- Simple compensation of cylinder tolerances
- Simple integration due to small design
- Controlled piston deceleration
- Increased piston service life due to collision prevention at the end of the work cycle

→ [www.mysick.com/en/IMPO8](http://www.mysick.com/en/IMPO8)

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

Housing	Cylindrical
Thread size	M8 x 1
Pressure resistance	≤ 500 bar
Sensing range $S_n$	1.5 mm
Assured sensing range $S_a$	1.2 mm
Installation type	Flush
Switching frequency	800 Hz
Output type	PNP / NPN (depending on type)
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating <sup>1)</sup>	IP 68

<sup>1)</sup> Sensing face.

### Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple <sup>1)</sup>	≤ 20 %
Voltage drop <sup>2)</sup>	≤ 2 V
Current consumption <sup>3)</sup>	≤ 10 mA
Time delay before availability	≤ 30 ms
Hysteresis <sup>4)</sup>	1 % ... 15 %
Repeatability	≤ 5 %
Temperature drift (% of $S_r$ )	± 10 % <sup>5)</sup> ± 15 % <sup>6)</sup>
EMC	According to EN 60947-5-2
Output current $I_a$	≤ 200 mA
Vacuum resistance <sup>7)</sup>	10 <sup>-8</sup> Torr
Size support ring	9.9 mm x 6.6 mm x 1 mm
Connection type	Cable, 2 m, PUR
Short-circuit protection	✓
Reverse polarity protection	✓
Shock/vibration	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +100 °C
Housing material	Stainless steel, V2A
Housing cap material	Ceramics, ZrO2
Material support ring	FPM
Tightening torque, max.	≤ 12 Nm

<sup>1)</sup> Of  $V_S$ .

<sup>2)</sup> With  $I_a = 200$  mA.

<sup>3)</sup> Without load.

<sup>4)</sup> Typ. 8%.

<sup>5)</sup> -25 °C...+70 °C.

<sup>6)</sup> +70 °C...+100 °C.

<sup>7)</sup> Front.

Reduction factors

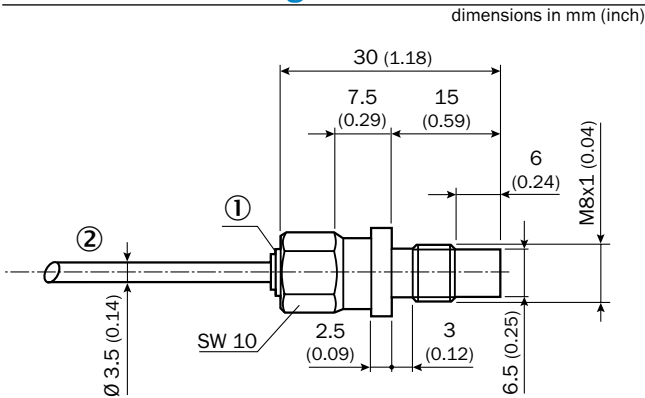
Carbon steel St37 (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.66
Aluminum (Al)	Approx. 0.26
Copper (Cu)	Approx. 0.22
Brass (Br)	Approx. 0.39

Ordering information

- Sensing range  $S_n$ : 1.5 mm
- Installation type: flush
- Output function: NO
- Connection diagram: cd-001

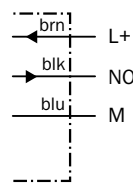
Output type	Connection	Model name	Part no.
PNP	Cable, 3-wire, 2 m, PUR	IMP08-1B5PSVU2S	6050111
NPN	Cable, 3-wire, 2 m, PUR	IMP08-1B5NSVU2S	6050112

Dimensional drawings



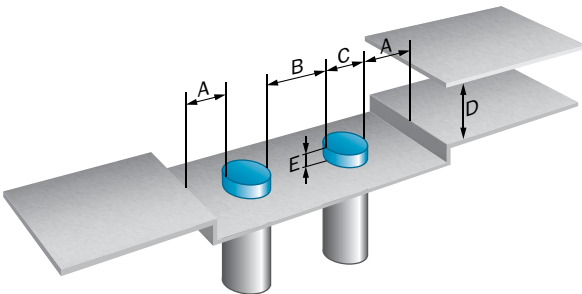
Connection diagram

Cd-001

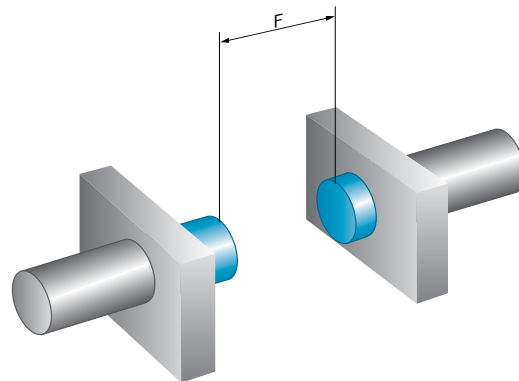


Installation note

Non-flush installation



Opposite installation



	A	B	C	D	E	F
IMPO8	2	6	8	4.5	0	12





M12 high pressure resistant sensors - always the best choice



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**Product description**

M12 IMP high-pressure-resistant sensors offer cutting-edge technology for every-day use. Whether they are used for end position control in hydraulic cylinders or for the monitoring of valve positions, state-of-the-art ASIC and manufacturing technologies from SICK mean that these

sensors are always the right choice. An active high-performance ceramic surface combined with stable stainless steel housing ensures an above-average service life and enables a high load capability for the sensors, withstanding up to 1 million pressure cycles.

**At a glance**

- Pressure resistant up to 500 bar
- Expected service life of up to 1 million pressure cycles
- Sensing range of 1.5 mm flush
- IP 68
- Stainless steel housing with active surface made from stable high-performance ceramic
- State-of-the-art ASIC technology from SICK
- Gas-tight at the sensor face
- 3 and 4-wire versions

**Your benefits**

- Reduced maintenance costs
- Extremely resilient and durable
- Up to 50 times longer service life compared to conventional sensors under pressure cycles
- Simple compensation of cylinder tolerances
- Simple integration due to small design
- Controlled piston deceleration
- Increased piston service life due to collision prevention at the end of the work cycle

→ [www.mysick.com/en/IMP12](http://www.mysick.com/en/IMP12)

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

	DC 3-wire	DC 4-wire
Housing	Cylindrical	
Thread size	M12 x 1	
Pressure resistance	≤ 500 bar	
Sensing range $S_n$	1.5 mm	
Assured sensing range $S_a$	1.2 mm	
Installation type	Flush	
Switching frequency	600 Hz	
Output type	PNP / NPN (depending on type)	
Output function	NC / NO (depending on type)	Complementary
Electrical wiring	DC 3-wire	DC 4-wire
Enclosure rating <sup>1)</sup>	IP 68	

<sup>1)</sup> Sensing face.

### Mechanics/electronics

	DC 3-wire	DC 4-wire
Supply voltage	10 V DC ... 30 V DC	
Ripple <sup>1)</sup>	≤ 20 %	
Voltage drop <sup>2)</sup>	≤ 2 V	
Current consumption <sup>3)</sup>	≤ 10 mA	
Time delay before availability	≤ 50 ms	
Hysteresis <sup>4)</sup>	1 % ... 15 %	
Repeatability	≤ 7 %	
Temperature drift (% of $S_r$ )	≤ 15 %	± 10 % <sup>5)</sup> ± 15 % <sup>6)</sup>
EMC	According to EN 60947-5-2	
Output current $I_a$	≤ 200 mA	
Vacuum resistance <sup>7)</sup>	10 <sup>-8</sup> Torr	
Size sealing ring	5.3 mm x 2.4 mm	
Size support ring	10 mm x 5.9 mm x 1 mm	
Connection type	Connector, M12	
Short-circuit protection	✓	
Reverse polarity protection	✓	
Shock/vibration	30 g, 11 ms / 10 ... 55 Hz, 1 mm	
Ambient operating temperature	-25 °C ... +80 °C	-25 °C ... +100 °C
Housing material	Stainless steel, V2A	
Housing cap material	Ceramics, ZrO2	
Material sealing ring	FPM	
Tightening torque, max.	≤ 40 Nm	

<sup>1)</sup> Of  $V_s$ .

<sup>2)</sup> With  $I_a = 200$  mA.

<sup>3)</sup> Without load.

<sup>4)</sup> Typ. 8%.

<sup>5)</sup> -25 °C...+70 °C.

<sup>6)</sup> +70 °C...+100 °C.

<sup>7)</sup> Front.

## Reduction factors

Note	The values are reference values which may vary
Carbon steel St37 (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.75
Aluminum (Al)	Approx. 0.2
Copper (Cu)	Approx. 0.12
Brass (Br)	Approx. 0.34

## Ordering information

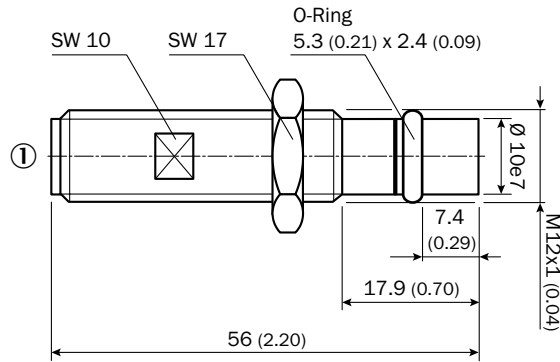
- Sensing range  $S_n$ : 1.5 mm
- Installation type: flush
- Connection: Connector M12, 4-pin

Housing length	Output function	Output type	Connection diagram	Model name	Part no.
56 mm	NC	PNP	Cd-008	IMP12-1B5POVC0B	6050114
		NPN	Cd-008	IMP12-1B5NOVC0B	6050116
	NO	PNP	Cd-007	IMP12-1B5PSVC0B	6050113
		NPN	Cd-007	IMP12-1B5NSVC0B	6050115
	Complementary	PNP	Cd-006	IMP12-1B5PPVC0B	6050117
		NPN	Cd-006	IMP12-1B5NPVC0B	6050118
69 mm	NC	PNP	Cd-008	IMP12-1B5POVC0C	6050120
		NPN	Cd-008	IMP12-1B5NOVC0C	6050122
	NO	PNP	Cd-007	IMP12-1B5PSVC0C	6050119
		NPN	Cd-007	IMP12-1B5NSVC0C	6050121
	Complementary	PNP	Cd-006	IMP12-1B5PPVC0C	6050123
		NPN	Cd-006	IMP12-1B5NPVC0C	6050124
78 mm	NC	PNP	Cd-008	IMP12-1B5POVC0D	6050126
		NPN	Cd-008	IMP12-1B5NOVC0D	6050128
	NO	PNP	Cd-007	IMP12-1B5PSVC0D	6050125
		NPN	Cd-007	IMP12-1B5NSVC0D	6050127
	Complementary	PNP	Cd-006	IMP12-1B5PPVC0D	6050129
		NPN	Cd-006	IMP12-1B5NPVC0D	6050130
93 mm	NC	PNP	Cd-008	IMP12-1B5POVC0F	6050132
		NPN	Cd-008	IMP12-1B5NOVC0F	6050134
	NO	PNP	Cd-007	IMP12-1B5PSVC0F	6050131
		NPN	Cd-007	IMP12-1B5NSVC0F	6050133
	Complementary	PNP	Cd-006	IMP12-1B5PPVC0F	6050135
		NPN	Cd-006	IMP12-1B5NPVC0F	6050136

Dimensional drawings

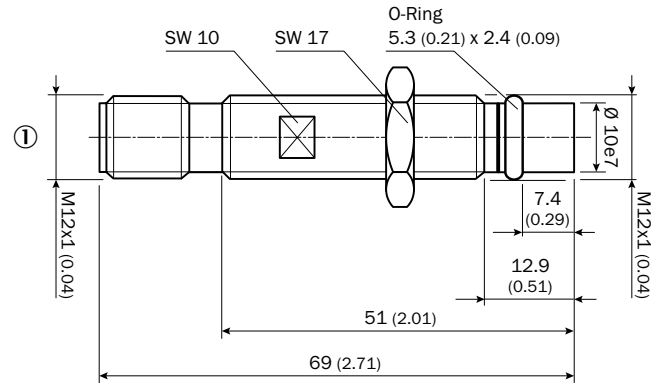
dimensions in mm (inch)

IMP12-xxxxxxxB, 56 mm



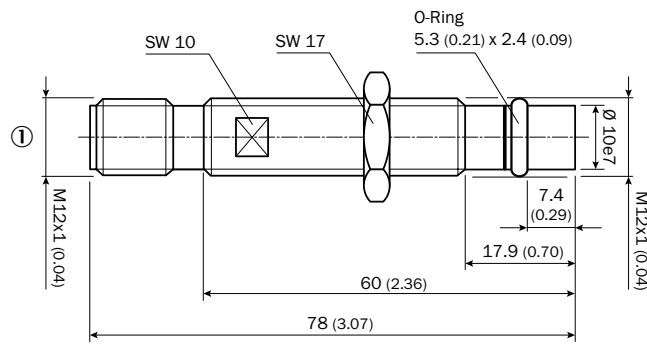
① Connector M12, 4-pin

IMP12-xxxxxxxC, 69 mm



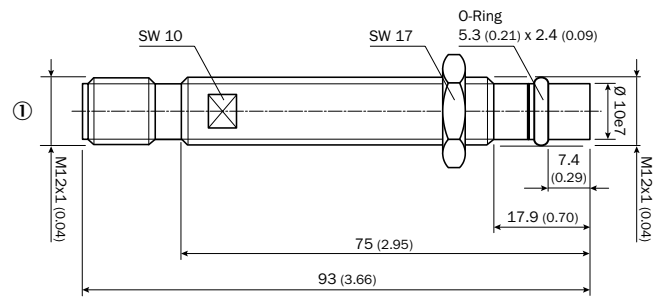
① Connector M12, 4-pin

IMP12-xxxxxxxD, 78 mm



① Connector M12, 4-pin

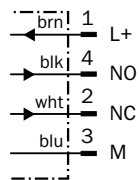
IMP12-xxxxxxxF, 93 mm



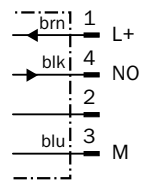
① Connector M12, 4-pin

Connection diagram

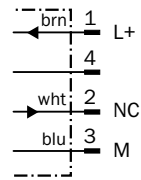
Cd-006



Cd-007

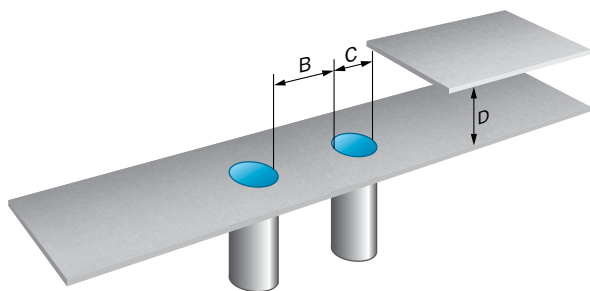


Cd-008

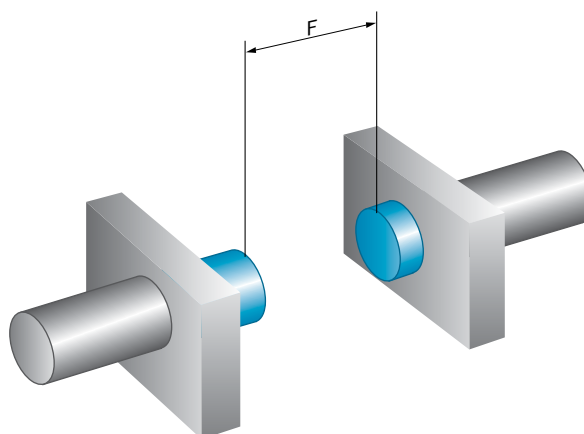


Installation note

Flush installation

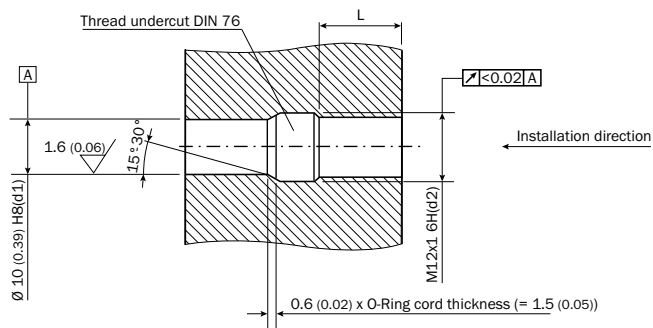


Opposite installation



	B	C	D	F
IMP12	8	12	5	12

Assembly note





L: recommended installation depth:  $L \geq 0.8 (0.03) \times d2$



M14 high pressure resistant sensor for hard everyday work




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**Product description**

The design of the M14 IMP high-pressure-resistant sensor family is rugged and reliable in hard, everyday work. State-of-the-art ASIC and manufacturing technologies from SICK enable up to 1 million pressure cycles and a sensing

range of 3 mm. The combination of rugged stainless steel housing and an active high-performance ceramic surface enables pressure resistance up to 500 bar.

**At a glance**

- Pressure resistant up to 500 bar
- Expected service life of up to 1 million pressure cycles
- Sensing range of 3 mm flush
- IP 68
- Stainless steel housing with active surface made from stable high-performance ceramic
- State-of-the-art ASIC technology from SICK
- Gas-tight at the sensor face

**Your benefits**

- Reduced maintenance costs
- Extremely resilient and durable
- Up to 50 times longer service life compared to conventional sensors under pressure cycles
- Simple compensation of cylinder tolerances
- Simple integration due to small design
- Controlled piston deceleration
- Increased piston service life due to collision prevention at the end of the work cycle

→ [www.mysick.com/en/IMP14](http://www.mysick.com/en/IMP14)

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

<b>Housing</b>	Cylindrical
<b>Thread size</b>	M14 x 1.5
<b>Pressure resistance</b>	≤ 500 bar
<b>Sensing range <math>S_n</math></b>	3 mm
<b>Assured sensing range <math>S_a</math></b>	2.4 mm
<b>Installation type</b>	Flush
<b>Switching frequency</b>	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 68

<sup>1)</sup> Sensing face.

### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple <sup>1)</sup></b>	≤ 20 %
<b>Voltage drop <sup>2)</sup></b>	≤ 2 V
<b>Current consumption <sup>3)</sup></b>	≤ 10 mA
<b>Time delay before availability</b>	≤ 50 ms
<b>Hysteresis <sup>4)</sup></b>	1 % ... 15 %
<b>Repeatability</b>	≤ 4 %
<b>Temperature drift (% of <math>S_r</math>)</b>	15 %
<b>EMC <sup>5)</sup></b>	According to EN 60947-5-2
<b>Output current <math>I_a</math></b>	≤ 200 mA
<b>Vacuum resistance <sup>6)</sup></b>	10 <sup>-8</sup> Torr
<b>Size sealing ring</b>	11.5 mm x 2.0 mm
<b>Connection type</b>	Connector, M12
<b>Short-circuit protection</b>	✓
<b>Reverse polarity protection</b>	✓
<b>Shock/vibration</b>	30 g, 11 ms / 10 ... 55 Hz, 1 mm
<b>Ambient operating temperature</b>	-25 °C ... +80 °C
<b>Housing material</b>	Stainless steel, V4A
<b>Housing cap material</b>	Ceramics, ZrO2
<b>Material sealing ring</b>	NBR
<b>Tightening torque, max.</b>	≤ 70 Nm

<sup>1)</sup> Of  $V_s$ .

<sup>2)</sup> With  $I_a = 200$  mA.

<sup>3)</sup> Without load.

<sup>4)</sup> Typ. 8%.

<sup>5)</sup> IEC61000-4-4: 1kV.

<sup>6)</sup> Front.

Reduction factors

Note	The values are reference values which may vary
Carbon steel St37 (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.85
Aluminum (Al)	Approx. 0
Copper (Cu)	Approx. 0
Brass (Br)	Approx. 0.15

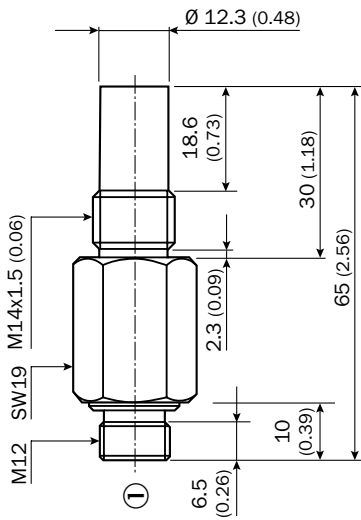
Ordering information

- Sensing range  $S_n$ : 3 mm
- Installation type: flush
- Connection: Connector M12, 4-pin

Output function	Output type	Connection diagram	Model name	Part no.
NO	PNP	Cd-007	IMP14-03BPSVCOS	6050137
	NPN	Cd-007	IMP14-03BNSVCOS	6050139
NC	PNP	Cd-008	IMP14-03BPOVCOS	6050138
	NPN	Cd-008	IMP14-03BNOVCOS	6050140

Dimensional drawings

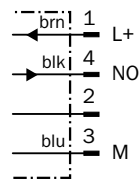
dimensions in mm (inch)



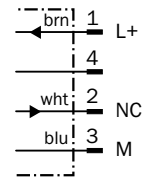
① Connector M12, 4-pin

Connection diagram

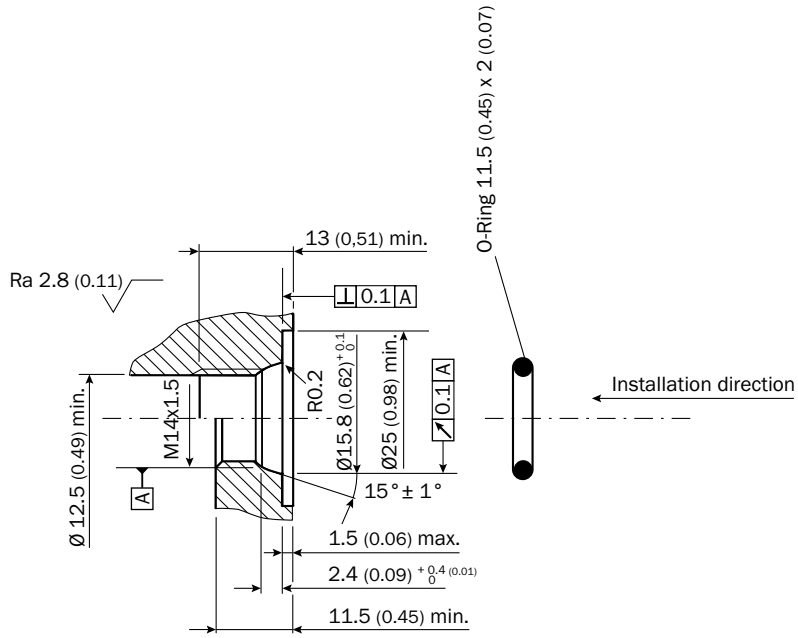
Cd-007



Cd-008



Assembly note



Other mounting accessories

- Accessory type: Others

Dimensions (L x W x H)	Model name	Part no.	IMP05	IMP08	IMP12	IMP14
1 mm x 7.5 mm x 4.4 mm	O-Ring IMP05	5327492	●	-	-	-
1 mm x 9.9 mm x 6.6 mm	O-Ring IMP08	5327493	-	●	-	-
5.3 mm x 2.4 mm	O-Ring IMP12	5327494	-	-	●	-
11.5 mm x 2 mm	O-Ring IMP14	5327495	-	-	-	●
1 mm x 10 mm x 5.9 mm	Support-Ring IMP12	5327496	-	-	●	-

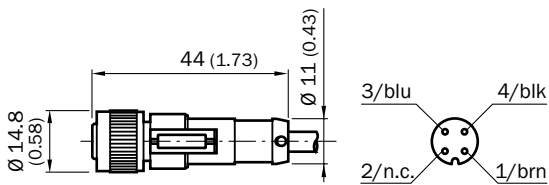
Plug connectors and cables

- Connection type: Connector M12, 4-pin
- Connector type: Female connector

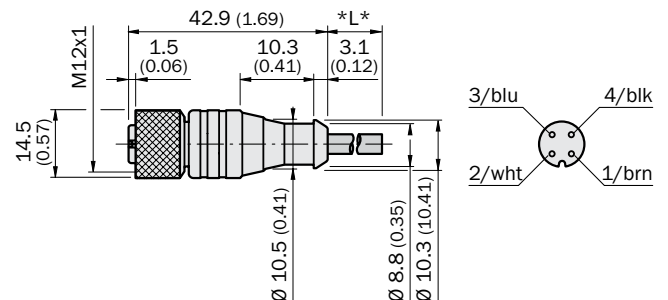
Figure	Configuration	Enclosure rating	Jacket material	Cable length	Model name	Part no.	IMP05	IMP08	IMP12	IMP14
	Straight	IP 67	PVC	2 m	DOL-1204-G02M	6009382	-	-	●	●
				5 m	DOL-1204-G05M	6009866	-	-	●	●
				10 m	DOL-1204-G10M	6010543	-	-	●	●
				15 m	DOL-1204-G15M	6010753	-	-	●	●
				20 m	DOL-1204-G20M	6034401	-	-	●	●
	Straight	IP 68	PUR halogen-free	2 m	DOL-1204-G02MC	6025900	-	-	●	●
				5 m	DOL-1204-G05MC	6025901	-	-	●	●
				10 m	DOL-1204-G10MC	6025902	-	-	●	●
				15 m	DOL-1204-G15MC	6034749	-	-	●	●
				20 m	DOL-1204-G20MC	6034750	-	-	●	●
	Right angle	IP 67	PVC	2 m	DOL-1204-W02M	6009383	-	-	●	●
				5 m	DOL-1204-W05M	6009867	-	-	●	●
				10 m	DOL-1204-W10M	6010541	-	-	●	●
				15 m	DOL-1204-W15M	6036474	-	-	●	●
				20 m	DOL-1204-W20M	6033559	-	-	●	●
	Right angle	IP 68	PUR halogen-free	2 m	DOL-1204-W02MC	6025903	-	-	●	●
				5 m	DOL-1204-W05MC	6025904	-	-	●	●
				10 m	DOL-1204-W10MC	6025905	-	-	●	●

Dimensional drawings Plug connectors and cables

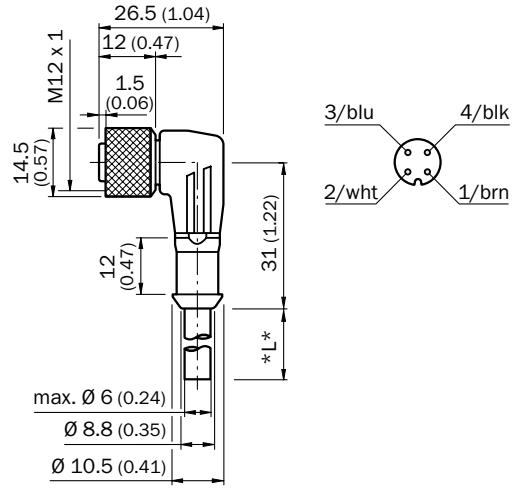
DOL-1204-GxxM, DOL-1204-GxxMC



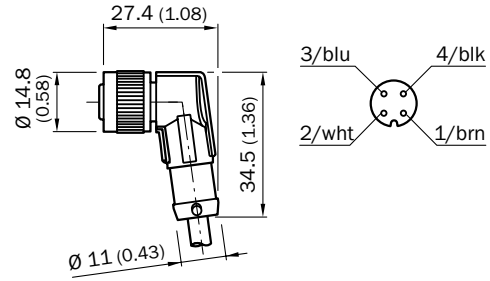
DOL-1204-G20M



**DOL-1204-WxxM**

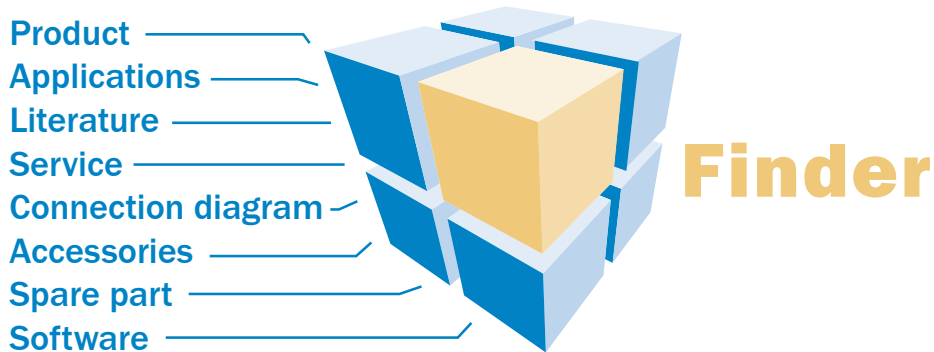


**DOL-1204-W02MC**





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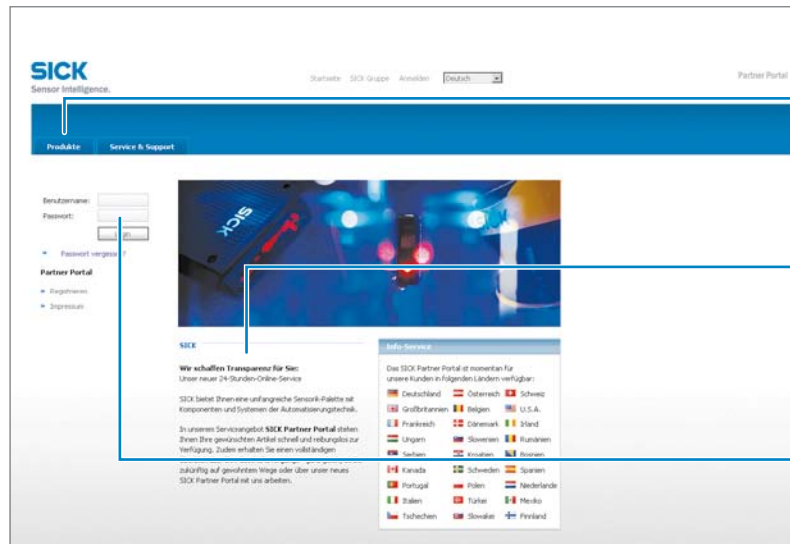
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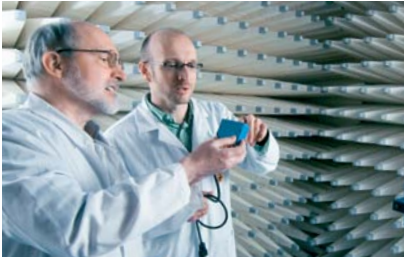
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