

IMB30-20NPSVU2S

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMB30-20NPSVU2S	1072845

Included in delivery: BEF-MU-M30N (1)

Other models and accessories → www.sick.com/IMB



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard design
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	20 mm
Safe sensing range S _a	16.2 mm
Installation type	Non-flush
Switching frequency	500 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 ¹⁾ IP69K ²⁾
Special features	Resistant against coolant lubricants, Visual adjustment indicator, IO-Link, Temperature resis- tance
Special applications	Zones with coolants and lubricants, Mobile machines, Difficult application conditions
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)

¹⁾ According to EN 60529.

²⁾ According to ISO 20653:2013-03.

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Mechanics/electronics

500 Hz /

¹⁾ At I_a max.

²⁾ Supply voltage Ub and constant ambient temperature Ta.

³⁾ Of Sr.

 $^{\rm 4)}$ When using the non-toothed side of the nut.

⁵⁾ Valid if toothed side of nut is used.

Safety-related parameters

MTTF _D	1,971 years
DC _{avg}	0 %

Communication interface

Communication interface	IO-Link V1.0
Communication Interface detail	COM2 (38,4 kBaud)
Process data length	1 Byte
Process data structure	Bit 0 = Sr reached Bit 1 = Sa reached

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Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.78
Aluminum (Al)	Approx. 0.44
Copper (Cu)	Approx. 0.36
Brass (Br)	Approx. 0.46

Installation note

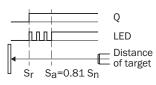
Remark	Associated graphic see "Installation"
A	20 mm
В	62 mm
c	30 mm
D	60 mm
E	20 mm
F	160 mm

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

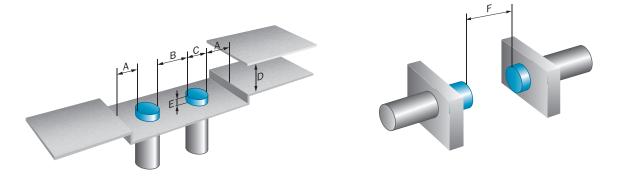
Adjustments

Installation aid



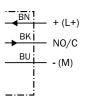
Installation note

Non-flush installation



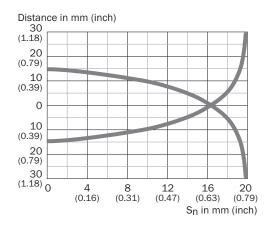
Connection diagram

Cd-452



Response diagram

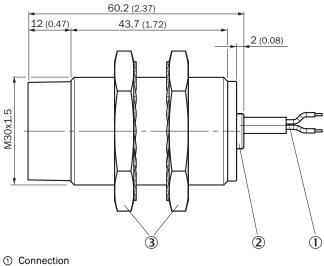
Response diagram



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Dimensional drawing (Dimensions in mm (inch))

IMB30 Standard, cable, non-flush



② Display LED

③ Fastening nuts (2 x); width across 36, stainless steel V2A

Recommended accessories

Other models and accessories -> www.sick.com/IMB

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting plate for M30 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M30	5321871
~	Mounting bracket for M30 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M30	5308445
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Cable: unshielded	DOS-1204-GN	6028357
	Head A: female connector, M12, 4-pin, angled Cable: unshielded	DOS-1204-WN	6028358
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-GN	6028359
	Head A: male connector, M12, 4-pin, straight Cable: unshielded For 2 cable connections	STE-1204-TN	6028360

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Recommended services

Additional services -> www.sick.com/IMB

	Туре	Part no.
Function Block Factory		
 Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found here. Note: You can configure your function block at Function Block Factory.. 	Function Block Factory	On request

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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Online data sheet

