

# IH03-0B6PS-VUB

**INDUCTIVE PROXIMITY SENSORS** 



INDUCTIVE PROXIMITY SENSORS



## Ordering information

Туре	Part no.
IH03-0B6PS-VUB	6020630

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

#### Illustration may differ



#### Detailed technical data

#### Features

Housing	Cylindrical smooth housing
Housing	Standard design
Diameter	Ø 3 mm
Sensing range S <sub>n</sub>	0.6 mm
Safe sensing range S <sub>a</sub>	0.486 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 5 m
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>

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

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 20 % <sup>1)</sup>
Voltage drop	$\leq 2 V^{2}$
Time delay before availability	≤ 10 ms
Hysteresis	1 % 10 %
Reproducibility	≤ 2 % <sup>3)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 2)

#### $^{1)}$ Of $V_{\mbox{S}}.$

 $^{2)}$  With Ia = 100 mA.

 $^{3)}\,\mbox{Supply voltage U}_B$  and constant ambient temperature Ta.

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Continuous current I <sub>a</sub>	≤ 100 mA
Cable material	PUR
Conductor size	0.06 mm <sup>2</sup>
Cable diameter	Ø 2.6 mm
Short-circuit protection	✓
Reverse polarity protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, POM
Housing length	22 mm
UL File No.	NRKH.E191603

 $^{1)}$  Of V<sub>S</sub>.

<sup>2)</sup> With Ia = 100 mA.

 $^{3)}\ensuremath{\,\text{Supply}}\xspace$  voltage  $U_B$  and constant ambient temperature Ta.

## Safety-related parameters

MTTF <sub>D</sub>	186 years
DC <sub>avg</sub>	0%
T <sub>M</sub> (mission time)	20 years

## Installation note

Remark	Associated graphic see "Installation"
A	0.5 mm
В	2 mm
С	3 mm
D	1.8 mm
E	0 mm
F	5 mm

## Classifications

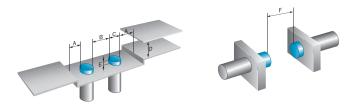
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714

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ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

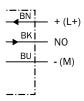
Installation note

Flush installation



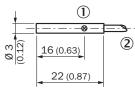
## **Connection diagram**

Cd-001



#### Dimensional drawing (Dimensions in mm (inch))

Standard-body, flush, cable





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#### Recommended accessories

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

	Brief description	Туре	Part no.	
Plug connecto	Plug connectors and cables			
•	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 020VA1XLEAX	2095860	
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 050VA1XLEAX	2095884	
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 100VA1XLEAX	2095885	
3	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YG8U13- 020VA1XLEAX	2096165	
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YG8U13- 050VA1XLEAX	2096166	
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YG8U13- 100VA1XLEAX	2096209	
<b>N N</b>	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 3-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 020VA1M2A13	2096605	
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 3-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 050VA1M2A13	2096606	
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm<sup>2</sup> 0.5 mm<sup>2</sup></li> </ul>	DOS-0803-G	7902077	
×.	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled</li> <li>Description: Unshielded</li> <li>Connection systems: Solder connection</li> <li>Permitted cross-section: ≤ 0.25 mm<sup>2</sup></li> </ul>	DOS-0803-W	7902078	

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	Brief description	Туре	Part no.
	<ul> <li>Connection type head A: Male connector, M8, 3-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm<sup>2</sup> 0.5 mm<sup>2</sup></li> </ul>	STE-0803-G	6037322
Terminal and alignment brackets			
	Plastic (PA6), without mounting hardware	BEF-KH-M03	2101064

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