



## IH34-30NUS-KUO

IH Standard

INDUCTIVE PROXIMITY SENSORS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
IH34-30NUS-KUO	7902134

Other models and accessories → [www.sick.com/IH\\_Standard](http://www.sick.com/IH_Standard)

Illustration may differ



## Detailed technical data

## Features

<b>Housing</b>	Cylindrical
<b>Housing</b>	Standard design
<b>Diameter</b>	Ø 34 mm
<b>Sensing range <math>S_n</math></b>	30 mm
<b>Safe sensing range <math>S_a</math></b>	24.3 mm
<b>Installation type</b>	Non-flush
<b>Switching frequency</b>	25 Hz <sup>1)</sup> 50 Hz <sup>2)</sup>
<b>Connection type</b>	Cable, 2-wire, 2 m
<b>Output function</b>	NO
<b>Electrical wiring</b>	AC/DC 2-wire
<b>Enclosure rating</b>	IP67 <sup>3)</sup>

<sup>1)</sup> Supply voltage AC.

<sup>2)</sup> Supply voltage DC.

<sup>3)</sup> According to EN 60529.

Mechanics/electronics

<b>Supply voltage</b>	20 V AC/DC ... 250 V AC/DC
<b>Voltage drop</b>	≤ 6.5 V (AC) ≤ 6 V (DC)
<b>Hysteresis</b>	1 % ... 15 %
<b>Reproducibility</b>	≤ 10 % <sup>1)</sup> <sup>2)</sup> <sup>3)</sup>
<b>Temperature drift (of <math>S_r</math>)</b>	± 10 %
<b>EMC</b>	According to EN 60947-5-2 As per EN 55011, class B
<b>Continuous current <math>I_a</math></b>	≤ 350 mA <sup>4)</sup> ≤ 250 mA <sup>5)</sup> ≤ 100 mA <sup>6)</sup>
<b>Load current</b>	± 5 mA
<b>Off-state current</b>	≤ 2.5 mA (AC 250 V) ≤ 1.3 mA (AC 110 V) ≤ 0.8 mA (DC 24 V)
<b>Short-time withstand current</b>	2.2 A <sup>7)</sup>
<b>Cable material</b>	PVC
<b>Conductor size</b>	0.5 mm <sup>2</sup>
<b>Cable diameter</b>	Ø 5.6 mm
<b>Short-circuit protection</b>	<sup>8)</sup>
<b>Shock and vibration resistance</b>	30 g, 11 ms / 10 ... 55 Hz, 1 mm
<b>Ambient operating temperature</b>	-25 °C ... +80 °C
<b>Housing material</b>	Plastic, PBT
<b>Sensing face material</b>	Plastic
<b>Housing length</b>	82 mm
<b>Protection class</b>	II
<b>Rated insulation voltage <math>U_i</math></b>	250 V AC
<b>Usage category</b>	AC-140 <sup>9)</sup> DC-13 <sup>10)</sup>
<b>Contamination rating</b>	3
<b>Rated impulse withstand voltage</b>	4 kV

<sup>1)</sup> Supply voltage  $U_B$  and constant ambient temperature  $T_a$ .

<sup>2)</sup> Of  $S_r$ .

<sup>3)</sup> Repeatability ( $T_a$  not constant).

<sup>4)</sup> Supply voltage AC (+50 °C).

<sup>5)</sup> Supply voltage AC (+80 °C).

<sup>6)</sup> Supply voltage DC.

<sup>7)</sup> 20 ms / 0.5 Hz.

<sup>8)</sup> Miniature fuse to IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow).

<sup>9)</sup> Control of small electromagnetic loads with holding currents < 200 mA.

<sup>10)</sup> Control of solenoids.

Safety-related parameters

**MTTF<sub>D</sub>**

971 years

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

## Reduction factors

<b>Note</b>	The values are reference values which may vary
<b>Stainless steel (V2A, 304)</b>	Approx. 0.7
<b>Aluminum (Al)</b>	Approx. 0.3
<b>Copper (Cu)</b>	Approx. 0.2
<b>Brass (Br)</b>	Approx. 0.4

## Installation note

<b>Remark</b>	Associated graphic see "Installation"
<b>A</b>	34 mm
<b>B</b>	85 mm
<b>C</b>	34 mm
<b>D</b>	90 mm
<b>E</b>	60 mm
<b>F</b>	240 mm

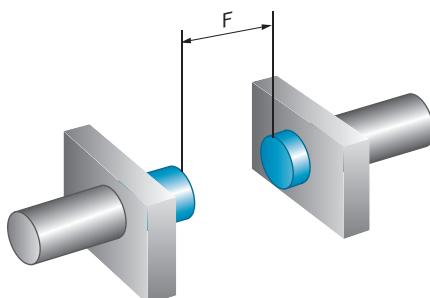
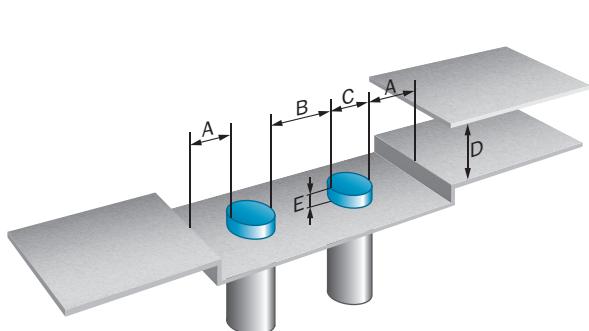
## Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>CCC certificate</b>	✓

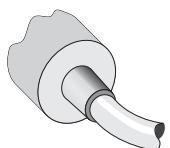
## Classifications

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

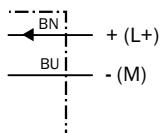
Installation note Non-flush installation



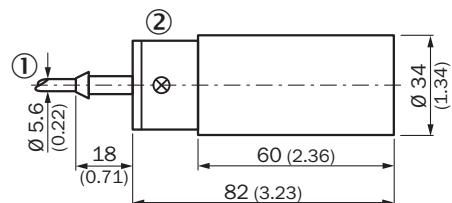
Connection type



Connection diagram Cd-012



Dimensional drawing IH34-30Nxx-xU0



Dimensions in mm (inch)

- ① Connection
- ② Display LED

## Recommended accessories

Other models and accessories ➔ [www.sick.com/IH\\_Standard](http://www.sick.com/IH_Standard)

	<b>Brief description</b>	<b>Type</b>	<b>part no.</b>
connectors and cables	 <ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M8, 3-pin, straight, A-coded</li><li><b>Description:</b> Unshielded</li><li><b>Connection systems:</b> Screw-type terminals</li><li><b>Permitted cross-section:</b> 0.14 mm<sup>2</sup> ... 0.5 mm<sup>2</sup></li></ul>	STE-0803-G	6037322

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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:

Contacts and other locations [www.sick.com](http://www.sick.com)