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Product data sheet



IH34-30NUS-KU0

IH Standard

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.

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IH34-30NUS-KU0 | IH Standard

INDUCTIVE PROXIMITY SENSORS



Illustration may differ

Ordering information

Type	Part no.
IH34-30NUS-KU0	7902134

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

Detailed technical data

Features

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

[1] Supply voltage AC.
[2] Supply voltage DC.
[3] According to EN 60529.

Mechanics/electronics

Supply voltage	20 V AC/DC ... 250 V AC/DC
Voltage drop	≤ 6.5 V (AC)

[1] Ub and Ta constant.
[2] Of Sr.
[3] Repeatability (T_a not constant).
[4] Supply voltage AC (+50 °C).
[5] Supply voltage AC (+80 °C).
[6] Supply voltage DC.
[7] 20 ms / 0.5 Hz.
[8] Miniature fuse to IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow).
[9] Control of small electromagnetic loads with holding currents < 200 mA.
[10] Control of solenoids.

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	≤ 6 V (DC)
Hysteresis	1 % ... 15 %
Reproducibility	≤ 10 % [1) 2) 3)]
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2 As per EN 55011, class B
Continuous current I_a	≤ 350 mA [4)] ≤ 250 mA [5)] ≤ 100 mA [6)]
Load current	± 5 mA
Off-state current	≤ 2.5 mA (AC 250 V) ≤ 1.3 mA (AC 110 V) ≤ 0.8 mA (DC 24 V)
Short-time withstand current	2.2 A [7)]
Cable material	PVC
Conductor size	0.5 mm²
Cable diameter	Ø 5.6 mm
Short-circuit protection	_ [8)]
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	–25 °C ... +80 °C
Housing material	Plastic, PBT
Sensing face material	Plastic
Housing length	82 mm
Protection class	II
Rated insulation voltage U_i	250 V AC
Usage category	AC-140 [9)] DC-13 [10)]
Contamination rating	3
Rated impulse withstand voltage	4 kV

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9) Control of small electromagnetic loads with holding currents < 200 mA.
10) Control of solenoids.

Reduction factors

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

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Installation note

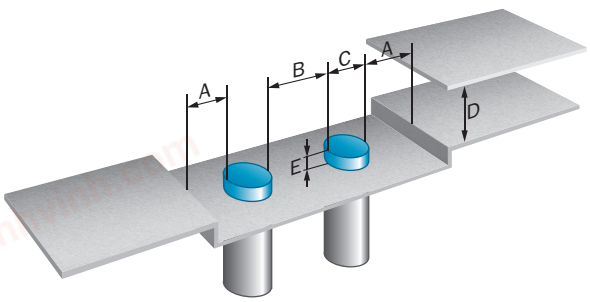
Remark	Associated graphic see "Installation"
A	34 mm
B	85 mm
C	34 mm
D	90 mm
E	60 mm
F	240 mm

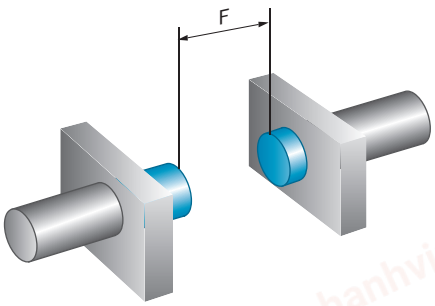
Classifications

ECl@ss 5.0	27270101
ECl@ss 5.1.4	27270101
ECl@ss 6.0	27270101
ECl@ss 6.2	27270101
ECl@ss 7.0	27270101
ECl@ss 8.0	27270101
ECl@ss 8.1	27270101
ECl@ss 9.0	27270101
ECl@ss 10.0	27270101
ECl@ss 11.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

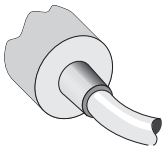
Non-flush installation





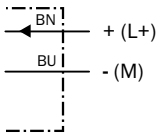
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Connection type



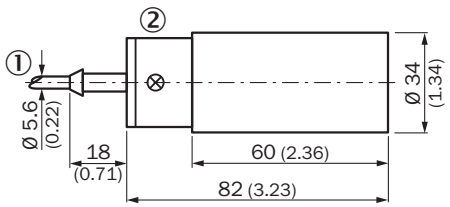
Connection diagram

Cd-012



Dimensional drawing (Dimensions in mm (inch))

IH34-30Nxx-xU0



① Connection
② Display LED

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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."

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