



Inductive proximity sensors  
Rectangular housing, IQ12

IQ12-06NPS-KT0



**Model Name** > [IQ12-06NPS-KT0](#)  
**Part No.** > [1016467](#)



**At a glance**

- Increased operating distance 3 mm/6 mm
- High switching frequency
- Short-circuit protection (pulsed)
- IP 67 enclosure rating

**Your benefits**

- Easy integration in space-critical applications
- Reliable detection of fast handling and assembly processes
- Quick and easy installation saves time
- Design provides a high degree of design freedom

**Note: This part is discontinued. Please see the replacement product under "Replacement Products" link. "**



**Features**

Design:	Rectangular
Dimensions (W x H x D):	12 mm x 26 mm x 40 mm
Sensing range Sn:	6 mm
Installation type:	Non-flush
Switching frequency:	1,000 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 <sup>1)</sup>
Connection type:	Connector M8, 3-pin

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

**Mechanics/electronics**

Supply voltage:	6 V DC ... 36 V DC
Ripple:	≤ 10 % <sup>1)</sup>
Voltage drop:	≤ 1.5 V <sup>2)</sup>
Current consumption:	≤ 5 mA <sup>3)</sup>
Time delay before availability:	≤ 10 ms

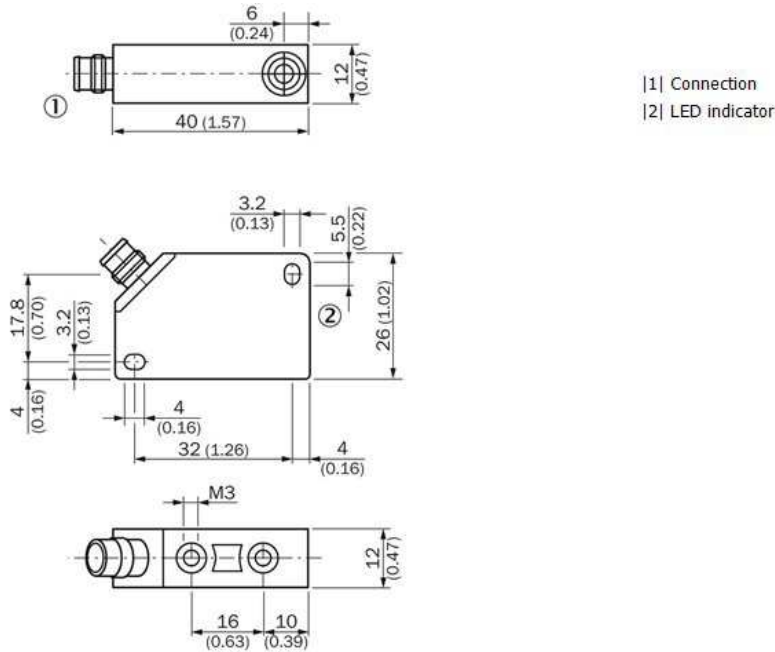
Hysteresis:	1 % ... 15 %
Repeatability:	≤ 1 % <sup>4) 5)</sup>
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current I <sub>a</sub> :	≤ 300 mA
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... +75 °C
Housing material:	Plastic
Sensing face material:	Plastic, PA12

1) Of V<sub>S</sub> 2) At I<sub>a</sub> max 3) Without load 4) U<sub>b</sub> and T<sub>a</sub> constant 5) Of Sr

### Installation note

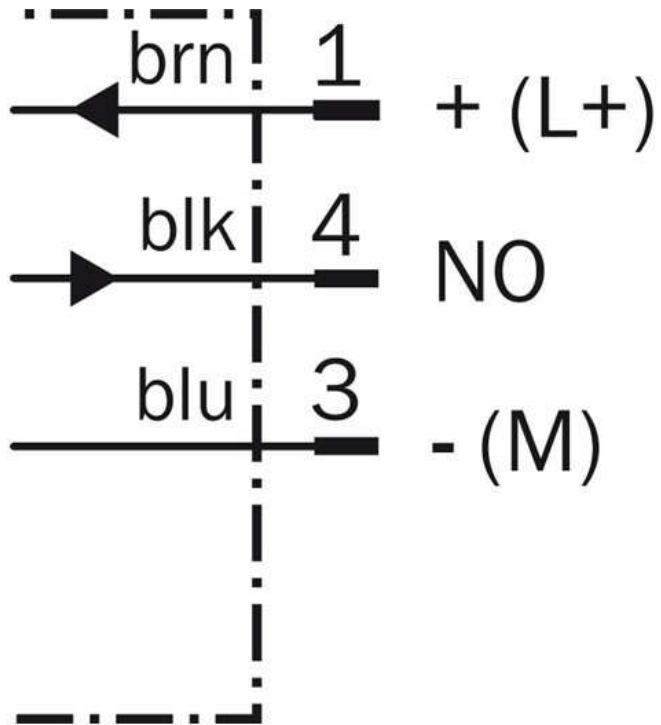
A:	6 mm
B:	24 mm
C:	12 mm
D:	24 mm
E:	8 mm
F:	48 mm
G:	12 mm
Remark:	Associated graphic see "Installation"

### Dimensional drawing

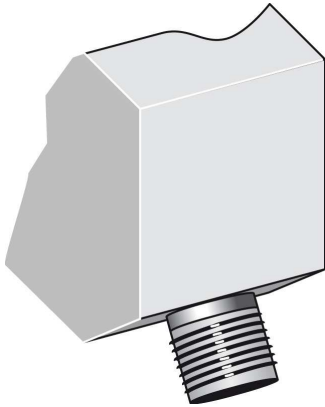


All dimensions in mm (inch)

Connection diagram



Connection type



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