

ONLINE DATA SHEET
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Inductive proximity sensors
Rectangular housing, IQ05

IQ05-0B8NS-ZU1



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Inductive proximity sensors
Rectangular housing, IQ05

Model Name > IQ05-0B8NS-ZU1
Part No. > 6020162





At a glance

- Sensing distance of 0.8 mm
- Can be flush mounted
- High switching frequency
- Short-circuit protection (pulsed)
- Rugged, nickel-plated brass housing
- IP 67 enclosure rating
- Extremely small and space-saving

Your benefits

- Time- saving, easy installation in space-critical applications
- Reliable detection of fast handling and assembly processes
- Quick and easy installation saves time
- Compact housing provides a high degree of design freedom

CE

Features

Design:	Rectangular
Dimensions (W x H x D):	5 mm x 5 mm x 25 mm
Sensing range Sn:	0.8 mm
Assured sensing range Sa:	0.648 mm
Installation type:	Flush
Switching frequency:	5,000 Hz
Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 [1]
Electrical connection:	Cable, 3-wire, 2 m

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 20 % [1]
Voltage drop:	≤ 2 V [2]
Power consumption:	≤ 10 mA [3]
Time delay before availability:	≤ 10 ms
Hysteresis:	1 % ... 10 %

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Repeatability:	≤ 1.5 % [4]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 200 mA
Cable material:	PUR
Conductor cross-section:	0.06 mm²
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms／10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... 70 °C
Housing material:	Metal, Chrome-plated brass
Sensing face material:	Plastic, Polyester

[1] Of V_S [2] At I_a max [3] Without load [4] Ub = 20 V DC ... 30 V DC, Ta = 23 °C ± 5 °C

Reduction factors

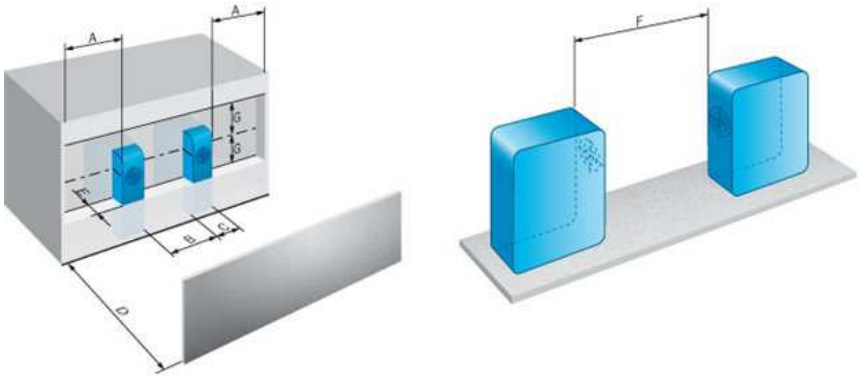
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.85
Copper (Cu):	Ca. 0.6
Aluminum (Al):	Ca. 0.6
Brass (Br):	Ca. 0.7

Installation note

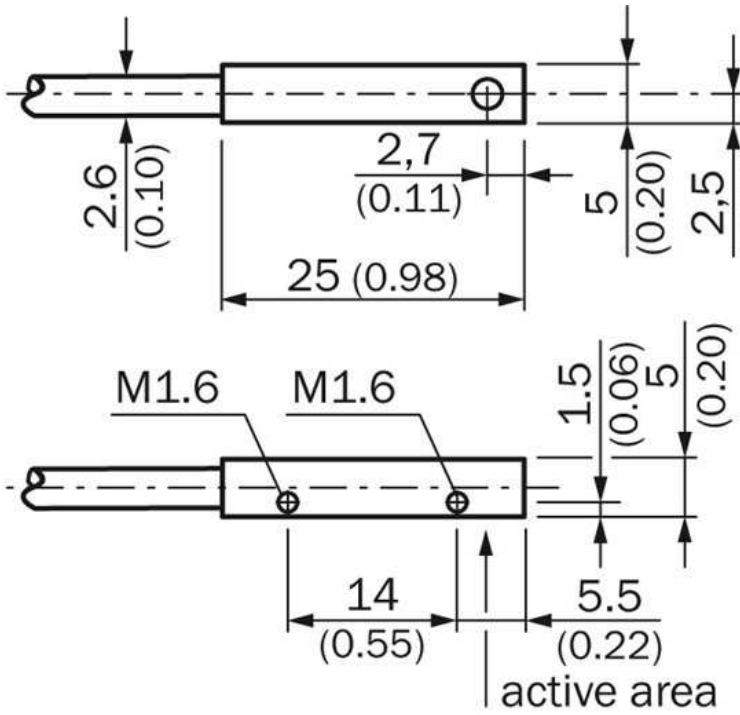
A:	0.8 mm
B:	0 mm
C:	5 mm
D:	2.4 mm
E:	0 mm
F:	7 mm
G:	3,3 mm
Remark:	Associated graphic see "Installation"

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Installation note



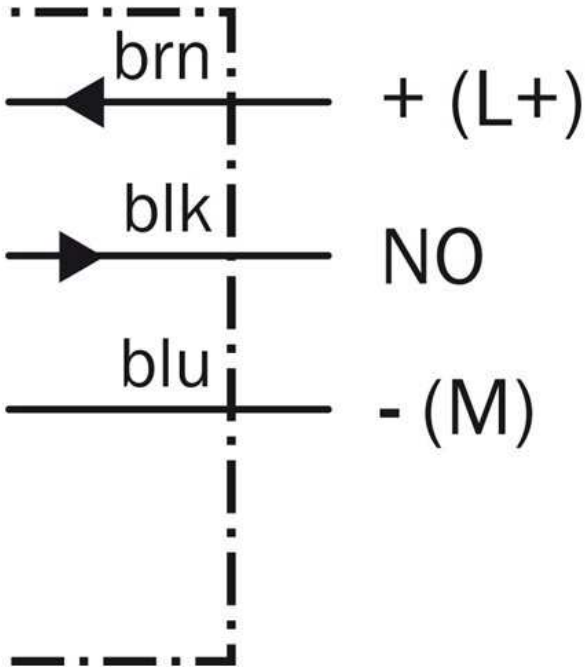
Dimensional drawing



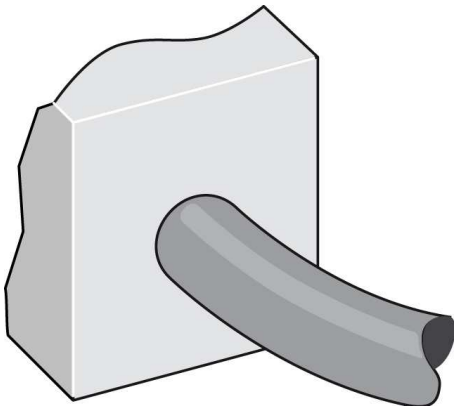
|1| Connection

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Connection diagram



Connection type



A4 4c int43

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