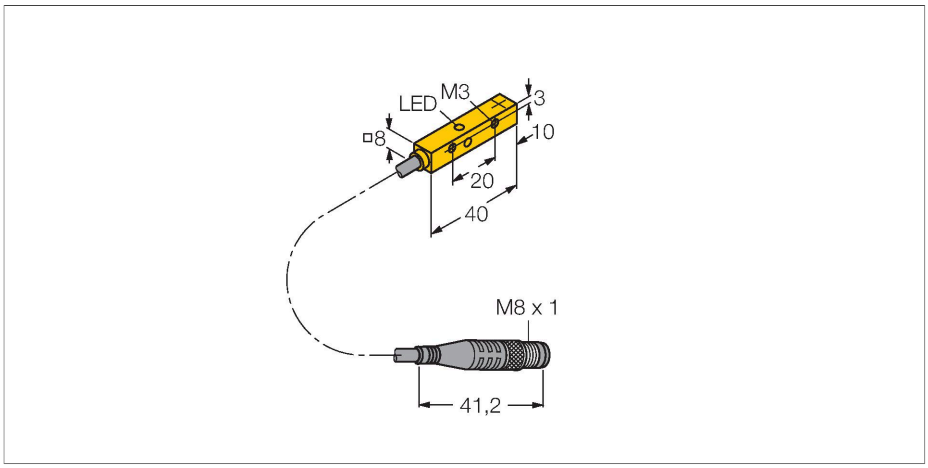
NI4U-Q8SE-AP6X-0.6-PSG3M
Inductive Sensor – With Extended Switching Distance



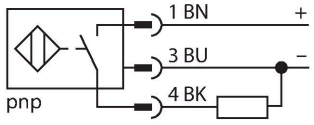
Technical data

Type	NI4U-Q8SE-AP6X-0.6-PSG3M
ID	4635836
General data	
Rated switching distance	4 mm
Mounting conditions	Non-flush, flush mountable
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3…15 %
Electrical data	
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current	15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
DC field stability	200 mT
AC field stability	200 mT_{ss}
Insulation class	⧈
Switching frequency	1 kHz

Features

- Rectangular, height 8 mm
- Active face on top
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Auto-compensation protects against pre-damping
- Flush mounted installation on up to 4 sides
- DC 3-wire, 10…30 VDC
- NO contact, PNP output
- Pigtail with male end M8 x 1

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

NI4U-Q8SE-AP6X-0.6-PSG3M| 21-10-2022 09-46 | Technical modifications reserved

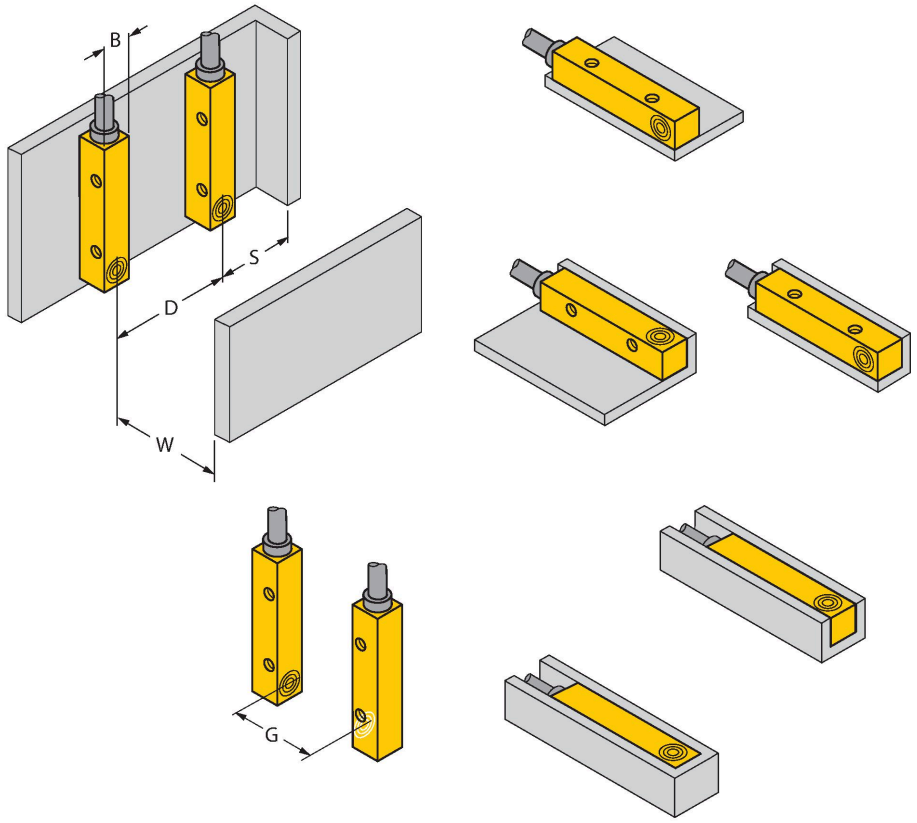
Technical data

Mechanical data	
Design	Rectangular, Q8SE
Dimensions	40 x 8 x 8 mm
Housing material	Plastic, PP, Yellow
Active area material	PP, yellow
Material coupling nut	metal, CuZn, nickel-plated
Tightening torque	≤ 0.6 Nm
Electrical connection	Cable with connector, M8 × 1
Cable quality	Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.6 m
	Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
Core cross-section	3 x 0.14 mm^2
Environmental conditions	
Ambient temperature	-30…+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

NI4U-Q8SE-AP6X-0.6-PSG3M| 21-10-2022 09-46 | Technical modifications reserved

Mounting instructions

Mounting instructions/Description



Distance D	24 mm
Distance W	12 mm
Distance S	12 mm
Distance G	24 mm
Width active area B	8 mm

Flush mounting on 4 sides

1-side mounting:
Sr = 3.5 mm

2-side mounting:
Sr = 3,0 mm

3-side mounting:
Sr = 2,5 mm

4-side mounting:
Sr = 2,0 mm

NI4U-Q8SE-AP6X-0.6-PSG3M| 21-10-2022 09-46 | Technical modifications reserved