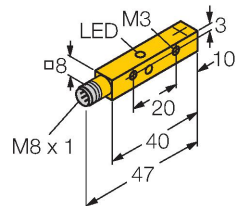


NI4U-Q8SE-RP6X-V1131

Inductive Sensor – With Extended Switching Distance



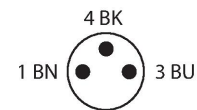
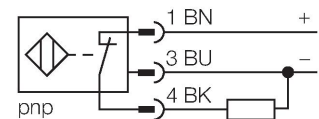
Features

- 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
- NC contact, PNP output
- M8 x 1 male connector

Technical data

Type	NI4U-Q8SE-RP6X-V1131
ID	4635820
General data	
Rated switching distance	4 mm
Mounting conditions	Non-flush, flush mountable
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	$\leq \pm 10 \%$
	$\leq \pm 15 \%, \leq -25 \text{ °C v } \geq +70 \text{ °C}$
Hysteresis	3...15 %
Electrical data	
Operating voltage U_b	10...30 VDC
Ripple U_{ss}	$\leq 10 \%$ U_{Bmax}
DC rated operating current I_o	≤ 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_o	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NC contact, PNP
DC field stability	200 mT
AC field stability	200 mT _{SS}
Insulation class	□

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.

Technical data

Switching frequency	1 kHz
Mechanical data	
Design	Rectangular, Q8SE
Dimensions	40 x 8 x 8 mm
Housing material	Plastic, PP, Yellow
Active area material	PP, yellow
Tightening torque	≤ 0.6 Nm
Electrical connection	Connector, M8 × 1
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

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

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

Wiring accessories

Dimension drawing	Type	ID	
M8 x 1 $\varnothing$ 9.6 9 33.5 L 50 5	PKG3M-2/TEL	6625058	Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval