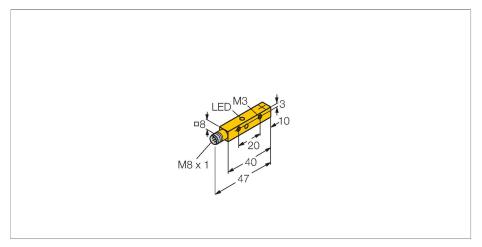


# NI4U-Q8SE-AP6X-V1131 Inductive Sensor – With Extended Switching Distance





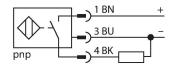
#### Technical data

| D 4                                      | 4635808                       |
|--|-------------------------------|
| General data                             |                               |
| Rated switching distance 4               | 4 mm                          |
| Mounting conditions                      | Non-flush, flush mountable    |
| Secured operating distance               | ≤ (0.81 × Sn) mm              |
| Repeat accuracy ≤                        | ≤ 2 % of full scale           |
| Γemperature drift ≤                      | ≤±10 %                        |
|  | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| Hysteresis 3                             | 315 %                         |
| Electrical data                          |                               |
| Operating voltage U <sub>B</sub> 1       | 1030 VDC                      |
| Ripple U <sub>ss</sub>                   | ≤ 10 % U <sub>Bmax</sub>      |
| DC rated operating current I。 ≤          | ≤ 150 mA                      |
| No-load current ≤                        | ≤ 15 mA                       |
| Residual current ≤                       | ≤ 0.1 mA                      |
| solation test voltage 0                  | 0.5 kV                        |
| Short-circuit protection y               | yes/Cyclic                    |
| /oltage drop at I。 ≤                     | ≤ 1.8 V                       |
| Wire break/reverse polarity protection y | yes/Complete                  |
| Output function 3                        | 3-wire, NO contact, PNP       |
| DC field stability 2                     | 200 mT                        |
| AC field stability 2                     | 200 mT <sub>ss</sub>          |
| nsulation class                          |                               |
| Switching frequency 1                    | 1 kHz                         |
| Mechanical data                          |                               |
| Design F                                 | Rectangular, Q8SE             |

### **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 predamping
- Flush mounted installation on up to 4 sides
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M8 x 1 male connector

### Wiring diagram





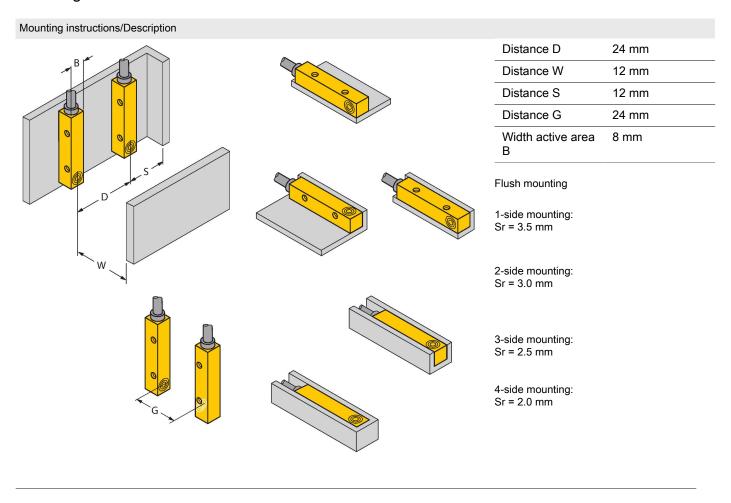
#### Functional principle

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

| 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





#### Accessories

Dimension drawing Type ID
PKG3M-2/TEL 6625058 Connection cable, M8 female



Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval