

# Proximity Sensors Inductive Nickel-plated Brass Housing Types DJ, M 14, PG 21, Namur



- Nickel-plated brass housing, cylindrical
- Diameter: M 14, PG 21
- Sensing distance: 2 to 6 mm
- Power supply: 8.2 VDC (Namur)
- Output: Namur (DIN 19 234)
- 2 m cable

## Product Description

Proximity switch in M 14 and PG 21 nickel-plated brass housings, for flush mounting and non-flush mounting. Amplifier relay SD ... available. Delivered with 2 m cable.

## Ordering Key

Type: Inductive proximity switch

Rated operating dist. (mm)

Housing material

**DJ 2 G**

## Type Selection

Housing diameter	Rated operating dist. (S <sub>n</sub> )	Ordering no. Namur
M 14	2 mm <sup>1)</sup>	DJ 2 G
M 14	5 mm <sup>2)</sup>	DJ 5 G
PG 21	6 mm <sup>1)</sup>	DJ 6 G

<sup>1)</sup> For flush mounting in metal

<sup>2)</sup> For non-flush mounting in metal

## Specifications

Rated operational volt. (U <sub>e</sub> ) (U <sub>B</sub> )	8.2 VDC 7 to 9 VDC (6 to 35 VDC, all specifications not observed in extended supply range)	Usable operating dist. (S <sub>u</sub> )	DJ 2 G 0.8 x S <sub>u</sub> ≤ S <sub>u</sub> ≤ 1.2 x S <sub>r</sub> DJ 5 G 0.9 x S <sub>u</sub> ≤ S <sub>u</sub> ≤ 1.1 x S <sub>r</sub> DJ 6 G 0.8 x S <sub>u</sub> ≤ S <sub>u</sub> ≤ 1.2 x S <sub>r</sub>
Self-inductance	≤ 300 mH	Ambient temperature Operating	DJ 2 G -20° to +60°C (-4° to +140°F) DJ 5 G -25° to +70°C (-13° to +158°F)
Self-capacitance	≤ 120 nF		DJ 6 G -20° to +60°C (-4° to +140°F)
No-load supply current (I <sub>0</sub> )	Activated: ≤ 1 mA Not activated: DJ 2 G ≥ 3 mA DJ 5 G ≥ 2.2 mA DJ 6 G ≥ 2.2 mA Max.: 9.35 mA	Storage	DJ 2 G -25° to +70°C (-13° to +158°F) DJ 5 G -30° to +80°C (-22° to +176°F) DJ 6 G -25° to +70°C (-13° to +158°F)
Protection	None (DJ10 G: reverse polarity)	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Transient voltage	≤ 1 kV/0.5 J (prepared)	Housing material	Nickel-plated brass Blue ABS Blue ABS
Frequency of operating cycles (f)	DJ 2 G 2000 Hz DJ 5 G 1000 Hz DJ 6 G 1000 Hz	Cable	DJ 2 G 2 m, 2 x 0.25 mm <sup>2</sup> DJ 5 G 2 m, 2 x 0.25 mm <sup>2</sup> DJ 6 G 2 m, 2 x 0.50 mm <sup>2</sup> grey PVC, oil proof
Assured operating dist. (S <sub>a</sub> )	DJ 2 G 0 to 1.44 mm DJ 5 G 0 to 4.05 mm DJ 6 G 0 to 4.32 mm		
Repeat accuracy (R)	≤ 10%		
Hysteresis (H) (Differential travel)	Dependent on amplifier relay		

**Specifications (cont.)****Weight**

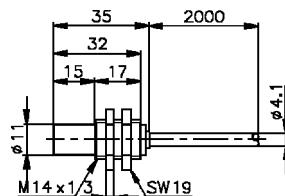
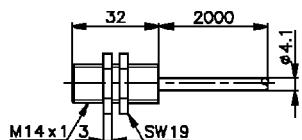
**DJ 2 G** 80 g  
**DJ 5 G** 80 g  
**DJ 6 G** 210 g  
 (cable included)

**Tightening torque**

**DJ 2 G** 17.5 Nm  
**DJ 5 G** 17.5 Nm  
**DJ 6 G** 175.0 Nm

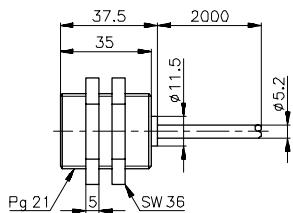
**CE-marking**

Yes

**Dimensions**

DJ 2 G

DJ 5 G



DJ 6 G

**Wiring Diagrams**

Refer to "Wiring Diagrams",  
 Technical information.

**Installation Hints**

Refer to "Installation Hints",  
 Technical information.

**Amplifier Relays, Namur**

> SD 110/210.  
> SD 170/270.

Refer to Technical Information.