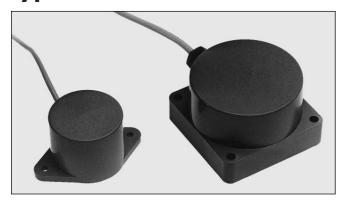
Proximity Sensors Inductive ABS Housing Types DJ, Ø 50, Ø 77 and EI, Ø 77





- ABS housing, Ø 50 mm, Ø 77 mm
 Sensing distance: 25 to 40 mm
 Power supply: 8.2 VDC (Namur)
 - 24 VDC

• Output: Namur (DIN 19234)

Transistor NPN, make switching (DJ 25 E)

Transistor NPN or PNP,

make or break switching (EI 8040)

- Protection: Reverse polarity
- 2 m cable

Product Description

Special-design proximity switch with long sensing distance, up to 40 mm. With transistor

NPN, PNP or made in accordance with Namur DIN 19 234. Sturdy ABS housing.

Ordering Key Type: Inductive proximity switch Housing Rated operating dist. (mm) Output type EI 8040 NPOP

Type Selection

Housing diameter	Rated operating dist. (S _n)	Ordering no. Namur	Ordering no. Transistor NPN Make switching	Ordering no. Transistor NPN Break switching	Ordering no. Transistor NPN Make switching	Ordering no. Transistor NPN Break switching
Ø 50 mm Ø 77 mm	25 mm ¹⁾ 40 mm ¹⁾	DJ 25 DJ 40	DJ 25 E EI 8040 NPOP	EI 8040 NPCP	EI 8040 PPOP	EI 8040 PPCP

¹⁾ For non-flush mounting in metal

Specifications

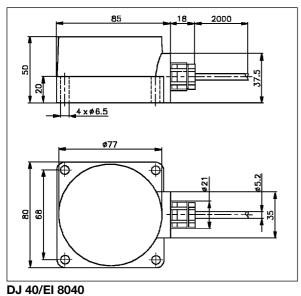
	Namur	Transistor NPN/PNP	
Rated operational volt. (U_e) (U_B)	8.2 VDC 7 to 9 VDC (6 to 35 VDC, all specifications not observed in extended supply range)	24 VDC DJ 25 E 21.6 to 26.4 VDC (ripple included) El 8040 10 to 40 VDC (ripple included)	
Self-inductance	≤ 500 µH		
Self-capacitance	≤ 120 nF		
Ripple		max. 10%	
Rated operational current (I _e)		≤ 200 mA	
No-load supply current (I _o)	Activated: ≤ 1 mA Not activated: ≥ 2.8 mA Max.: 9.35 mA	DJ 25 E ≤ 15 mA (output ON and OFF) EI 8040 ≤ 7 mA (output ON) ≤ 3 mA (output OFF)	
Voltage drop (U _d)		DJ 25 E ≤ 1.5 VDC (at max. load) EI 8040 ≤ 2 VDC (at max. load)	
Protection	Reverse polarity	DJ 25 E reverse polarity El 8040 short-circuit, reverse polarity, transients	
Transient voltage	≤ 1 kV/0.5 J (prepared)	≤ 1 kV/0.5 J (prepared)	
Power ON delay		DJ 25 E none EI 8040 typ. 5 ms	
Frequency of operating cycles (f)	DJ 25 250 Hz DJ 40 100 Hz	DJ 25 E 200 Hz EI 8040 70 Hz	

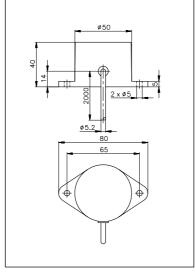


Specifications (cont.)

	Namur	Transistor NPN/PNP	
Indication for output ON		DJ 25 E none El 8040 LED, yellow	
Assured operating dist. (S _a)	DJ 25 0 to 18 mm DJ 40 0 to 28 mm	DJ 25 E 0 to 18 mm El 8040 0 to 32 mm	
Repeat accuracy (R)	≤ 10%	DJ 25 E ≤ 10% EI 8040 ≤ 5%	
Hysteresis (H)			
(Differential travel)	Dependent on amplifier relay	1 to 15% of sensing distance	
Effective operating dist. (S _r)	$0.9 \times S_n \le S_r \le 1.1 \times S_n$	$0.9 \times S_n \le S_r \le 1.1 \times S_n$	
Usable operating dist. (S _u)	$0.8 \times S_r \le S_u \le 1.2 \times S_r$	DJ 25 E $0.8 \times S_r \le S_u \le 1.2 \times S_r$ EI 8040 $0.9 \times S_r \le S_u \le 1.1 \times S_r$	
Ambient temperature			
Operating Storage	-20° to +60°C (-4° to +140°F) -25° to +70°C (-13° to +158°F)	-20° to +60°C (-4° to +140°F) -25° to +70°C (-13° to +158°F)	
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)	IP 67 (Nema 1, 3, 4, 6, 13)	
Housing material	Blue ABS	DJ 25 E ABS, blue El 8040 ABS, grey	
Cable	2 m, 2 x 0.50 mm ² grey PVC, oil proof	2 m, 3 x 0.25 mm ² grey PVC, oil proof	
Weight (cable included)	DJ 25 220 g DJ 40 500 g	DJ 25 E 220 g EI 8040 500 g	
Approvals		EI 8040 CE	

Dimensions





DJ 25.

Wiring Diagrams

Refer to "Wiring Diagrams", Technical Information.

Power Supplies

Power supplies VAC: > SS 110.
Power supplies VDC: > SS 130/140

Installation Hints

Refer to "Installation Hints", Technical Information.

Namur, Amplifier Relays

> SD 110/210. > SD 170/270. Refer to Technical Information.