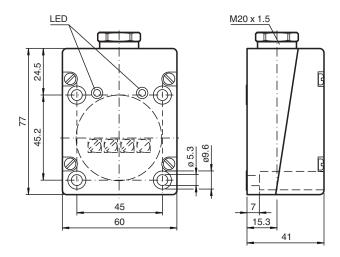


Inductive sensor NBB25-FPS-A2

- 25 mm flush
- 4-wire DC

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Dimensions



Technical Data

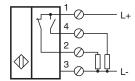
General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	s_n	25 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 15.75 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 75 mm x 75 mm x 1 mm
Reduction factor r _{Al}		0.5
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₄		0.8
Reduction factor r _{Brass}		0.5
Output type		4-wire
Nominal ratings		
Operating voltage	U_B	10 30 V DC
Switching frequency	f	0 70 Hz
Hysteresis	Н	0.05 5.5 mm

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data Reverse polarity protection yes Short-circuit protection yes Overload resistance yes Wire breakage protection yes Inductive overvoltage protection yes Surge suppression yes Ripple 10 % Voltage drop U_{d} \leq 2.5 V R Repeat accuracy 1 mm Operating current I_{L} 0 ... 200 mA Off-state current ≤ 0.01 mA No-load supply current I_0 ≤ 20 mA Time delay before availability \leq 100 ms Operating voltage indicator LED, green Switching state indicator LED, yellow Functional safety related parameters 1390 a MTTF_d Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0% Compliance with standards and directives Standard conformity Standards EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates CCC approval CCC approval / marking not required for products rated ≤36 V **Ambient conditions** Ambient temperature -25 ... 85 °C (-13 ... 185 °F) -40 ... 85 °C (-40 ... 185 °F) Storage temperature **Mechanical specifications** Connection type screw terminals Core cross section up to 2.5 mm² PBT Housing material PBT Sensing face Housing base **PBT** IP65 Degree of protection Mass 270 g

Connection



The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.

