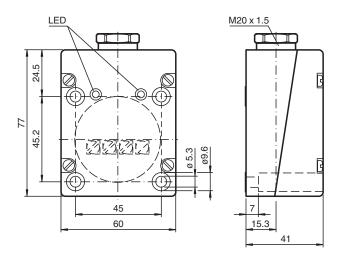


Inductive sensor NBB25-FPS-A2

- 25 mm flush
- 4-wire DC

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Dimensions

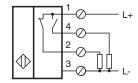


Technical Data

General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	Sn	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

Technical Data Hysteresis Н 0.05 ... 5.5 mm Reverse polarity protection yes Short-circuit protection yes Overload resistance yes Wire breakage protection yes Inductive overvoltage protection yes Surge suppression yes Ripple 10 % \leq 2.5 V Voltage drop $U_{\text{d}} \\$ Repeat accuracy R 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 ≤ 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 0 % Diagnostic Coverage (DC) Compliance with standards and directives Standard conformity EN IEC 60947-5-2 Standards Approvals and certificates CCC approval CCC approval / marking not required for products rated ≤36 V **Ambient conditions** -25 ... 85 °C (-13 ... 185 °F) Ambient temperature -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 Sensing face **PBT** PBT Housing base IP65 Degree of protection Mass 270 g **Dimensions** Height 41 mm Width 60 mm Length 77 mm

Connection



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

