

# Inductive sensor NCB40-FP-A2-P2

- 4-wire DC
- Sensing range 40 mm

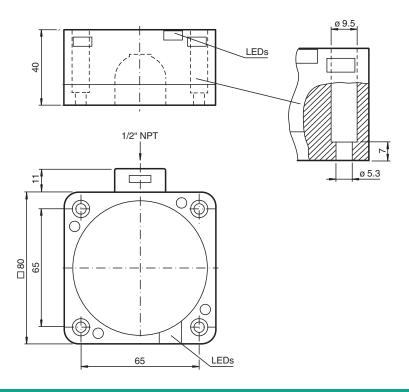








## **Dimensions**

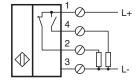


# **Technical Data**

General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	Sn	40 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 32.4 mm
Reduction factor r <sub>Al</sub>		0.25
Reduction factor r <sub>Cu</sub>		0.23

#### Technical Data Reduction factor r<sub>304</sub> 0.85 Output type 4-wire **Nominal ratings** Operating voltage $U_{B}$ 10 ... 60 V DC Switching frequency f 0 ... 80 Hz Н Hysteresis typ. 3 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing ≤3 V Voltage drop $U_{\text{d}}$ 0 ... 200 mA Operating current $I_{\mathsf{L}}$ Off-state current 0 ... 0.5 mA No-load supply current $I_0$ ≤ 20 mA Time delay before availability ≤ 300 ms Operating voltage indicator LED, green Switching state indicator LED, yellow Functional safety related parameters $\mathsf{MTTF}_\mathsf{d}$ 680 a Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC) 0% Compliance with standards and directives Standard conformity Standards EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 Approvals and certificates cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose CCC approval Certified by China Compulsory Certification (CCC) **Ambient conditions** Ambient temperature -25 ... 70 °C (-13 ... 158 °F) **Mechanical specifications** Connection type screw terminals Core cross-section up to 2.5 mm<sup>2</sup> PBT Housing material PBT Sensing face PBT Housing base Degree of protection IP68

### Connection



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

