

NCB40-FP-A2-P1

Features

- **Comfort series**
- 40 mm flush

Technical Data General specifications

Switching element function		PNP	NO/N
Rated operating distance	s _n	40 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 32.4	mm

Reduction factor r_{Al} 0.25 Reduction factor r_{Cu} 0.23 Reduction factor r₃₀₄ 0.85

Nominal ratings Operating voltage U_B 10 ... 60 V Switching frequency 0 ... 80 Hz Н typ. 3 % Hysteresis

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing Voltage drop U_d ≤ 3 V

0 ... 200 mA Operating current Off-state current 0 ... 0.5 mA No-load supply current ≤ 20 mA Time delay before availability ≤ 300 ms LED, green LED, yellow Operating voltage display Switching state indication

Functional safety related parameters

MTTF_d Mission Time (T_M) 630 a 20 a Diagnostic Coverage (DC) 0 %

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

Connection type screw terminals Core cross-section up to 2.5 mm² Housing material PBT Sensing face PBT Housing base PBT Protection degree IP68

Compliance with standards and directives

Standard conformity

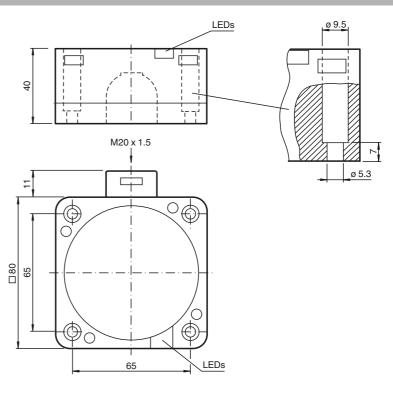
EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

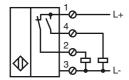
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval Certified by China Compulsory Certification (CCC)

Dimensions



Electrical Connection



Installation Hint

These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the sensor is afforded a high degree of mechanical protection. No clearance is required between the sensor and the base plate, avoiding the need for protective guarding to prevent possible foot injury.

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

