

Inductive sensor NCB40-FP-A2-T-P1

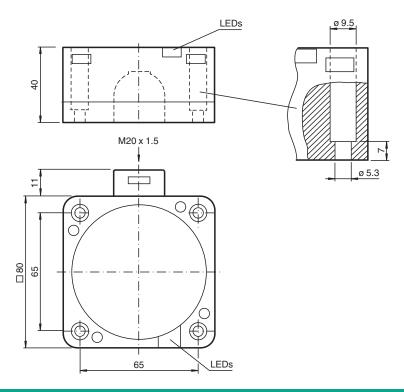
Comfort series







Dimensions

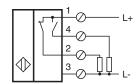


Technical Data

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
Actual operating distance	s _r	36 44 mm
Reduction factor r _{Al}		0.25

Technical Data		
Reduction factor r _{Cu}		0.23
Reduction factor r ₃₀₄		0.85
Output type		4-wire
Nominal ratings		
Operating voltage	U_B	10 30 V
Switching frequency	f	0 80 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protection		reverse polarity protected
Voltage drop	U_{d}	≤3 V
Temperature drift		-10 15 % at < -25 °C
Operating current	IL	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	≤ 300 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		554 a
Mission Time (T _M)		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		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-40 100 °C (-40 212 °F)
Mechanical specifications		
Connection type		screw terminals
Information for connection		A maximum of two conductors with the same core cross section may be mounted or one terminal connection! tightening torque 1.2 Nm + 10 %
Core cross-section		up to 2.5 mm ²
Minimum core cross-section		without wire end ferrule 0.5 mm ² , with connector sleeves 0.34 mm ²
Maximum core cross-section		without wire end ferrule 2.5 mm ² , with connector sleeves 1.5 mm ²
Housing material		PBT
Sensing face		PBT
Housing base		PBT
Degree of protection		IP68

Connection



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

