Model Number

NCB50-FP-Z2-P1

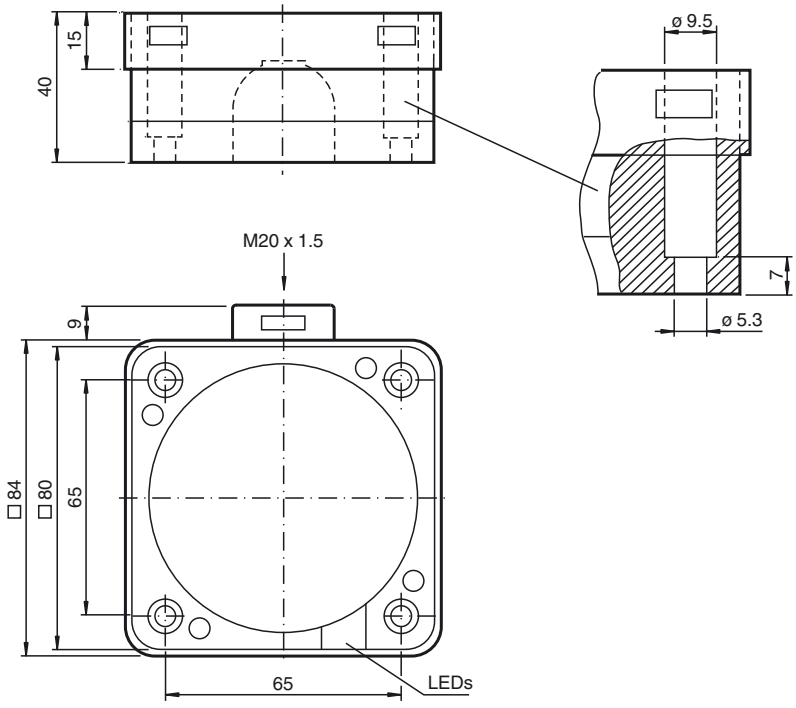
Features

- **50 mm flush**
- **2-wire DC**

Technical Data

General specifications		
Switching function		Normally open/closed (NO/NC)
Output type		Two-wire
Rated operating distance	s_n	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 40.5 mm
Actual operating distance	s_r	45 ... 55 mm typ.
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.8
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 80 Hz
Hysteresis	H	0 ... 20 typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3.8 V
Voltage drop at I_L		
Voltage drop I_L = 20 mA, switching element on U_d		2.7 ... 4.9 V
Design data		
Operating current	I_L	2 ... 200 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	≤ 0.6 mA
Time delay before availability	t_v	≤ 300 ms
Switching state indicator		LED, yellow
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		screw terminals
Information for connection		A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 %
Core cross-section		up to 2.5 mm²
Minimum core cross-section		without wire end ferrule 0.5 mm² , with connector sleeves 0.34 mm²
Maximum core cross-section		without wire end ferrule 2.5 mm² , with connector sleeves 1.5 mm²
Housing material		PBT
Sensing face		PBT
Housing base		PBT
Degree of protection		IP68
Protection class		II
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		Certified by China Compulsory Certification (CCC)

Dimensions



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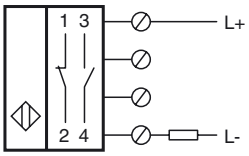
Electrical Connection



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