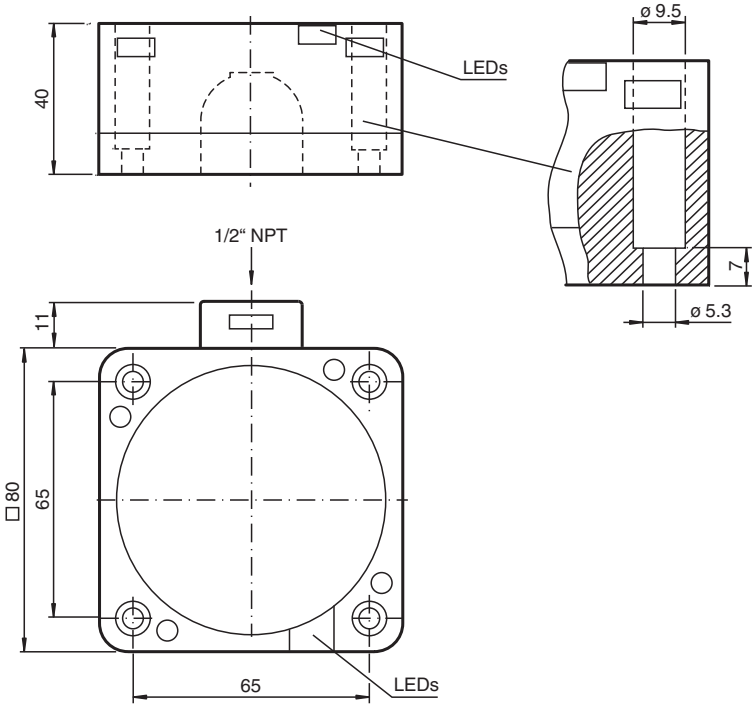
Inductive sensor
NCN40-FP-W-T-P4

- Temperature range
  -25 ... 100 °C (-13 ... 212 °F)

Dimensions



Technical Data

General specifications		
Switching function		Normally open/closed (NO/NC)
Output type		Two-wire
Rated operating distance	s_n	40 mm
Installation		non-flush
Output polarity		AC
Assured operating distance	s_a	0 ... 32.4 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.3

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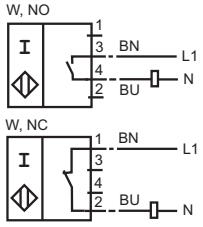
Technical Data

Reduction factor r_{304}		0.85
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	20 ... 253 V
Switching frequency	f	0 ... 20 Hz
Hysteresis	H	typ. 3 %
Short-circuit protection		no
Voltage drop	U_d	≤ 5 V typ. 4V
Momentary current (20 ms, 0.1 Hz)		max. 3000 mA
Operating current	I_L	5 ... 500 mA
Off-state current	I_r	0.3 ... 1 mA typ. 0.7 mA
Time delay before availability	t_v	≤ 100 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
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)
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 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 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/base of metal
Sensing face		PBT
Housing base		aluminum painted
Degree of protection		IP68
Note		[1] In the temperature range below 0 °C, permissible operating voltage U_b 80...253 V Safety fuse ≤ 2 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

Connection



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