

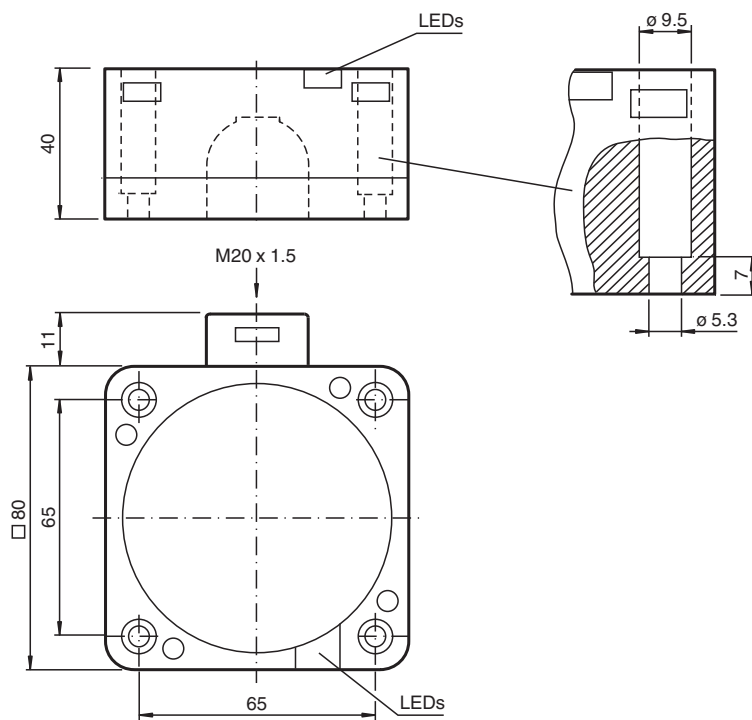


Inductive sensor NCN40-FP-W-T-P1

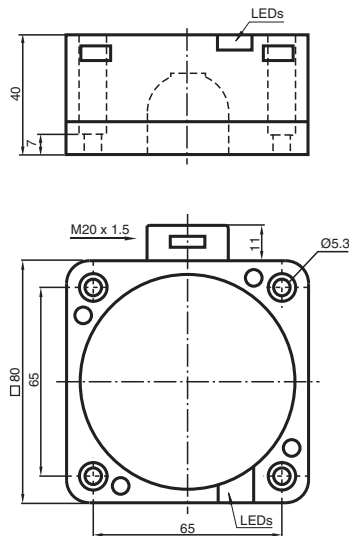
- Temperature range
-25 ... 100 °C (-13 ... 212 °F)



Dimensions



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
Reduction factor r ₃₀₄		0.85
Output type		2-wire

Nominal ratings	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

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
Temperature drift		-10 ... 15 % at < -25 °C
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)

Technical Data

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 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
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

