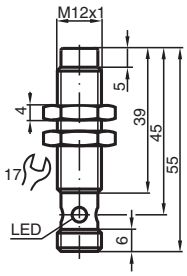
Inductive sensor

NCN8-12GM40-Z7-V1



- 8 mm non-flush
- 2-wire DC
- Increased operating distance

Dimensions



Technical Data

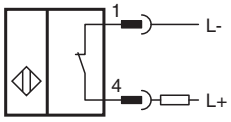
General specifications		
Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	s_n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.49
Reduction factor r_{Cu}		0.49
Reduction factor r_{304}		0.74
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	3.5 ... 30 V
Switching frequency	f	0 ... 750 Hz
Hysteresis	H	typ. 3 %
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		pulsing

Release date: 2024-05-28 Date of issue: 2024-06-08 Filename: 180847_eng.pdf

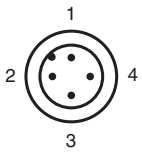
Technical Data

Voltage drop	U_d	≤ 3.5 V
Temperature drift		± 15%
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	0.4 ... 0.6 mA typ. 0.5 mA
Switching state indicator		LED, yellow
Functional safety related parameters		
$MTTF_d$		1930 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Dimensions		
Length		35 mm
Diameter		12 mm

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Release date: 2024-05-28 Date of issue: 2024-06-08 Filename: 180847_eng.pdf