

Inductive sensor

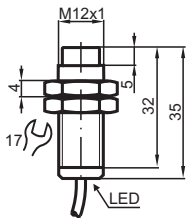
NCN8-12GM35-Z4



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



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
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

Technical Data

Switching frequency	f	0 ... 750 Hz
Hysteresis	H	typ. 3 %
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		pulsing
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
Pre-fault indicator		LED, red
Stability control-switch point		0,8 s _r ... 0,9 s _r

Functional safety related parameters

MTTF _d	1010 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

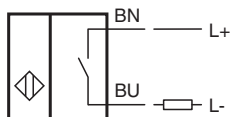
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	cable PVC , 2 m
Core cross-section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

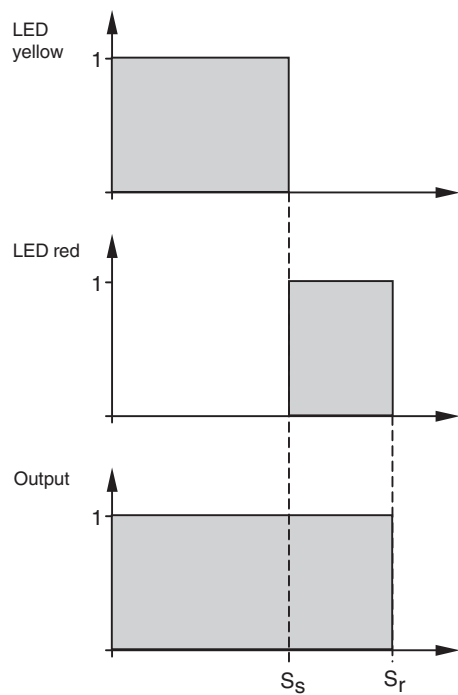
Connection



Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 109739_eng.pdf

Characteristic Curve

Correlation between output signal/LED-function and stable operating distance s_s /effective operating distance s_r : (s_s typ. 80 % of s_r)



Accessories

	BF 12	Mounting flange, 12 mm
---	--------------	------------------------

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 109739_eng.pdf