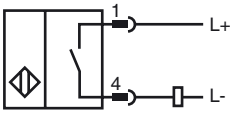
Model Number

NCN8-12GM40-Z4-V1

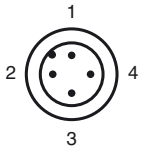
Features

- **8 mm not embeddable**
- **2-wire DC**
- **Increased operating distance**

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

BF 12
Mounting flange, 12 mm

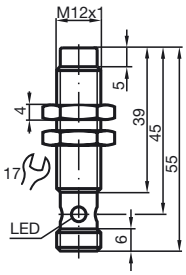
V1-G
4-pin, M12 female field-attachable connector

V1-W
4-pin, M12 female field-attachable connector

V1-G-2M-PUR
Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR
Cable socket, M12, 4-pin, PUR cable

Dimensions



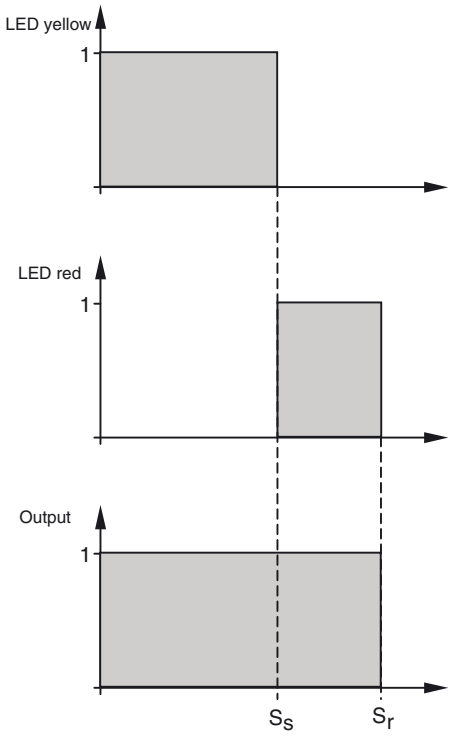
Technical Data

General specifications		
Switching element function		DC NO
Rated operating distance	s_n	8 mm
Installation		not embeddable
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_{303}		0.74
Nominal ratings		
Operating voltage	U_B	3.5 ... 30 V
Switching frequency	f	0 ... 750 Hz
Hysteresis	H	typ. 3 %
Reverse polarity protected		leading
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
Indication of the switching state		LED, yellow
Pre-fault indication		LED, red
Stability control-switch point		0,8 s_r ... 0,9 s_r
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Device connector M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Protection degree		IP67
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Release date: 2011-07-08 13:38 Date of issue: 2011-07-08 121011_eng.xml

Installation hint

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



Release date: 2011-07-08 13:38 Date of issue: 2011-07-08 121011_eng.xml