



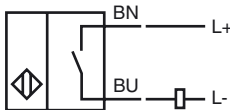
### Model Number

NCN8-12GM35-Z4

### Features

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

### Connection

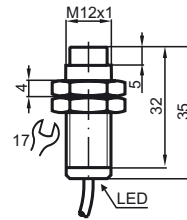


### Accessories

#### BF 12

Mounting flange, 12 mm

## Dimensions



## Technical Data

### General specifications

Switching element function	DC	NO
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

### 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	$U_d$	$\leq 3.5$ V
Temperature drift		$\pm 15\%$
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 $s_r$

### Functional safety related parameters

MTTF <sub>d</sub>	1010 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

### 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 <sup>2</sup>
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 $\leq 36$ V do not bear a CCC marking because they do not require approval.

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

