



## Model Number

NJ4-12GM50-WS

## Features

- 4 mm non-flush
- 2-wire AC

## Accessories

### BF 12

Mounting flange, 12 mm

### EXG-12

Quick mounting bracket with dead stop

## Technical Data

### General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	$s_n$	4 mm
Installation		non-flush
Output polarity		AC
Assured operating distance	$s_a$	0 ... 3.24 mm
Reduction factor $r_{AI}$		0.4
Reduction factor $r_{CU}$		0.4
Reduction factor $r_{304}$		0.7
Output type		2-wire

### Nominal ratings

Operating voltage	$U_B$	20 ... 253 V
Switching frequency	$f$	0 ... 20 Hz
Reverse polarity protection		reverse polarity tolerant
Voltage drop	$U_d$	typ. 4 V at 15 ... 200 mA typ. 6.5 V at 5 mA
Momentary current (20 ms, 0.1 Hz)		0 ... 1200 mA
Operating current	$I_L$	5 ... 200 mA
Off-state current	$I_r$	typ. 0.7 mA
Time delay before availability	$t_v$	≤ 30 ms
Switching state indicator		LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>	1230 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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### Mechanical specifications

Connection type	cable PVC, 2 m
Core cross-section	0.34 mm <sup>2</sup>
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	PBT
Degree of protection	IP67
Cable	
Cable diameter	4.6 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Note	<sup>1)</sup> In the temperature range below 0 °C, permissible operating voltage $U_b$ 80 ... 253 V Safety fuse ≤ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

### General information

Scope of delivery	2 self locking nuts in scope of delivery
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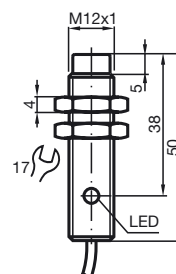
### Compliance with standards and directives

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)

## Dimensions



Electrical Connection

