

# Inductive sensor

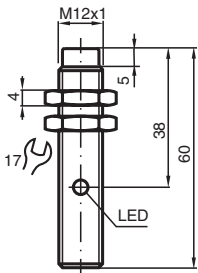
## NJ4-12GM50-WS-V12



■ 2-wire AC



### Dimensions



### 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 $r_{Al}$		0.4
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{304}$		0.7
Output type		2-wire

#### Nominal ratings

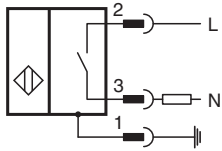
Operating voltage	$U_B$	20 ... 253 V
Switching frequency	$f$	0 ... 20 Hz
Voltage drop	$U_d$	typ. 4 V at 15 ... 200 mA typ. 6.5 V at 5 mA
Momentary current (20 ms, 0.1 Hz)		0 ... 1200 mA

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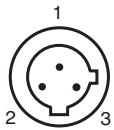
## Technical Data

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
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug 1/2"-20 UN , 3-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Dimensions		
Length		50 mm
Diameter		12 mm
Note		1) 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.

## Connection



## Connection Assignment



### Wire colors

1	GN	(green)
2	RD/BK	(red/black)
3	RD/WH	(red/white)