

Inductive sensor

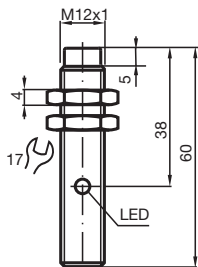
NJ4-12GM50-WS-V12



■ 2-wire AC



Dimensions



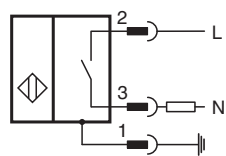
Technical Data

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
Nominal ratings		
Operating voltage	U _B	20 ... 253 V
Switching frequency	f	0 ... 20 Hz

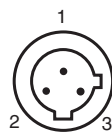
Technical Data

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
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		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector 1/2"-20 UN , 3-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
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)

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Accessories

	BF 12	Mounting flange, 12 mm
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