



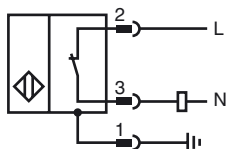
**Model Number**

NJ2-12GM50-WO-V13

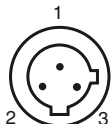
**Features**

- 2-wire AC

**Connection**



**Pinout**



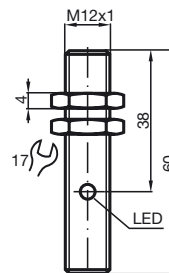
Wire colors

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

**Accessories**

- BF 12**  
Mounting flange, 12 mm
- EXG-12**  
Quick mounting bracket with dead stop

**Dimensions**



**Technical Data**

General specifications		
Switching element function	AC	NC
Rated operating distance	$s_n$	2 mm
Installation	embeddable	
Output polarity	AC	
Assured operating distance	$s_a$	0 ... 1.62 mm
Reduction factor $r_{AI}$	0.1	
Reduction factor $r_{Cu}$	0.1	
Reduction factor $r_{304}$	0.6	
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	
Operating current	$I_L$	5 ... 200 mA
Off-state current	$I_r$	typ. 0.7 mA
Indication of the switching state	LED, yellow	
Ambient conditions		
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)	
Mechanical specifications		
Connection type	Device connector	
Core cross-section	-	
Housing material	Stainless steel 1.4305 / AISI 303	
Sensing face	PBT	
Protection degree	IP67	
Note	1) In the temperature range below 0 °C, permissible operating voltage $U_b$ 80...253 V Safety fuse $\leq 2$ 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	
Compliance with standards and directives		
Standard conformity	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)	

Release date: 2012-02-09 12:19 Date of issue: 2012-02-09 026687\_eng.xml