



Model Number

NJ2-12GM50-WS-V12

Features

- 2 mm flush
- 2-wire AC

Accessories

EXG-12

Quick mounting bracket with dead stop

BF 12

Mounting flange, 12 mm

Technical Data

General specifications

Switching element function		AC	NO
Rated operating distance	s_n	2 mm	
Installation		flush	
Output polarity		AC	
Assured operating distance	s_a	0 ... 1.62 mm	
Reduction factor r_{Al}		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
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

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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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 ≤ 2 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

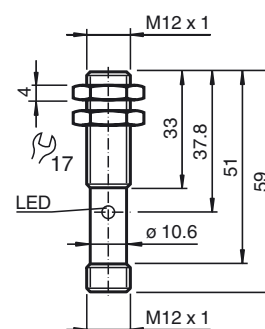
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

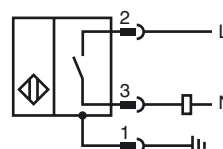
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

Dimensions



Electrical Connection





Pinout



Wire colors

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