

NJ2-12GM40-E2-V1

Features

• 2 mm flush

Accessories

BF 12

Mounting flange, 12 mm

EXG-12

Quick mounting bracket with dead stop

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications Switching element function

Rated operating distance	s _n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	sa	0 1.62 mm
Actual operating distance	s _r	1.8 2.2 mm typ.
Reduction factor r _{Al}		0.23
Reduction factor ro		0.21

PNP

0.7

NO

Reduction factor r₃₀₄ Nominal ratings

10 ... 60 V 0 ... 3000 Hz Operating voltage Switching frequency Hysteresis Н 1 ... 10 typ. 3 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

 U_{d} . ≤3 V Voltage drop Voltage drop at I_L

Voltage drop I_L = 100 mA, switching ele-1.2 ... 2.5 V ment on U_d 0 ... 200 mA Operating current ≤ 0.5 mA Off-state current

No-load supply current ≤ 9 mA I_0 Time delay before availability ≤ 20 ms LED, yellow Switching state indicator Functional safety related parameters

MTTF_d
Mission Time (T_M)
Diagnostic Coverage (DC) 750 a 20 a 0 %

Ambient conditions Ambient temperature -25 ... 70 °C (-13 ... 158 °F) -40 ... 85 °C (-40 ... 185 °F)

Storage temperature **Mechanical specifications**

Connection type Connector M12 x 1, 4-pin Housing material Stainless steel 1.4305 / AISI 303 PBT

Sensing face Degree of protection

General information IP67

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity

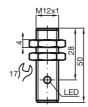
Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

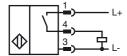
cULus Listed, General Purpose **UL** approval cCSAus Listed, General Purpose CSA approval

Certified by China Compulsory Certification (CCC) CCC approval

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown
2	WH	(white)
3	BU	(blue)
4	BK	(black)

FPEPPERL+FUCHS

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