





Model Number

NJ15-M1-E2-V1

Features

- 15 mm non-flush
- 3-wire DC

Accessories

V1-G

Female connector, M12, 4-pin, field attachable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W

Female connector, M12, 4-pin, field attachable

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General specifications		
Switching element function		PNP NO
Rated operating distance	Sn	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	Sa	0 12.15 mm
Actual operating distance	s _r	13.5 16.5 mm typ. 15 mm
Reduction factor r _{Al}		0.39
Reduction factor r _{Cu}		0.36
Reduction factor r ₃₀₄		0.73
Nominal ratings		
Operating voltage	U_R	10 60 V DC
Switching frequency	f	0 200 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V
Voltage drop at I _L		
Voltage drop $I_L = 200 \text{ mA}$, switching element on U_d		1 2.5 V typ. 2.2 V
Rated insulation voltage	U _{BIS}	500 V
Operating current	IL.	0 200 mA
No-load supply current	I ₀	≤ 14 mA
Time delay before availability	t _v	≤ 50 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameter	ers	
MTTF _d		932 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)

Connector M12 x 1, 4-pin PBT/metal RAL 7011

Sensing face Degree of protection IP67 Compliance with standards and directives

Standard conformity

Connection type Housing material

Toohnigal Data

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

Approvals and certificates

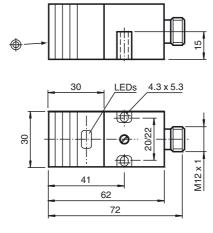
Mechanical specifications

EAC conformity TR CU 020/2011

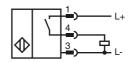
Certified by China Compulsory Certification (CCC) CCC approval

PBT

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)

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