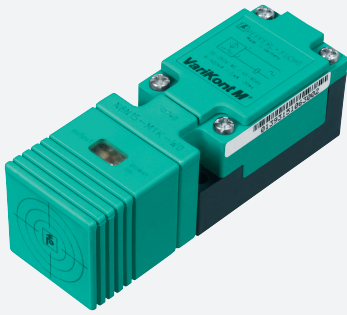


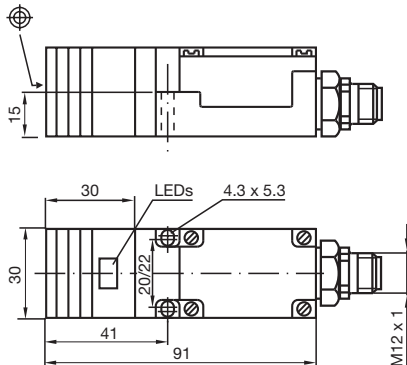


Inductive sensor NJ15-M1K-A2-V1

- 15 mm non-flush
- 4-wire DC



Dimensions



Technical Data

General specifications

Switching function		complementary
Output type		PNP
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.15 mm
Reduction factor r_{Al}		0.39
Reduction factor r_{Cu}		0.36
Reduction factor r_{304}		0.73

Nominal ratings

Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 200 Hz

Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 228467_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

Technical Data

Hysteresis	H	typ. 5 %
Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2.5 \text{ V}$
Operating current	I_L	0 ... 200 mA
No-load supply current	I_0	$\leq 14.5 \text{ mA}$
Time delay before availability	t_v	$\leq 50 \text{ ms}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d	932 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

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)

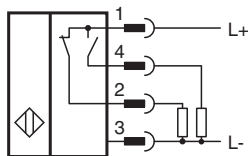
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
---------------------	--------------------------------

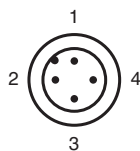
Mechanical specifications

Connection type	Connector M12 x 1 , 4-pin
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Accessories

	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable

Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 228467_eng.pdf