

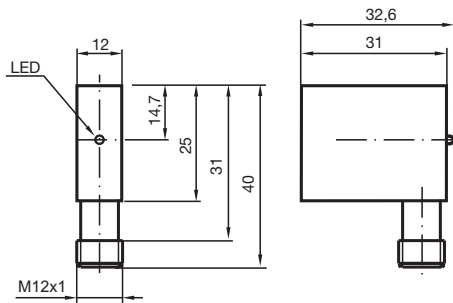
Inductive sensor

NJ1,5-F2-E0-V1

- Comfort series
- 1.5 mm with switching tappet
- 3-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.215 mm
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	1000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
No-load supply current	I_0	≤ 15 mA
Switching state indicator		LED, red

Compliance with standards and directives

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

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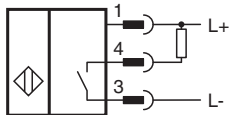
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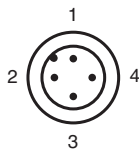
Technical Data

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
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	Connector plug M12 x 1 , 4-pin
Housing material	Polyamide (PA)
Degree of protection	IP67
Mass	15 g
Note	Use a stop screw combined with a model -F2 sensor from Pepperl+Fuchs GmbH. The maximum actuation speed of the control slide is 0.1 m/s

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

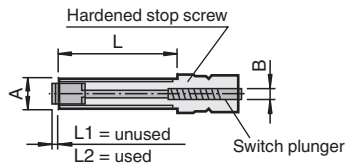
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Additional Information

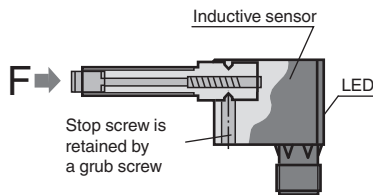
The inductive proximity sensor with plug-in acknowledgement elements is designed for applications where the simple installation of an adjustable mechanical stop with electronic acknowledgement is required.

Heavy duty fine threaded stop screws serve as finely adjustable end stops. The state of the acknowledgement element is indicated by the built-in LED on the proximity sensor.

Accessories:
Stop screws (Acknowledgement elements)



Type Coding	A	B	L	L1	L2	Load F max.
AS 08/15	M 8 x 1	6	15	3.5	2	2 000 N
AS 08/40	M 8 x 1	6	40	3.5	2	2 000 N
AS 10/50	M 10 x 1	7	50	2.5	1	9 500 N
AS 12/60	M 12 x 1	9	60	2	0.5	20 500 N
AS 12/80	M 12 x 1	9	80	2	0.5	20 500 N



Accessories

	AS 12/60	Stop screw for series F2 sensors
	AS 12/80	Stop screw for series F2 sensors
	AS 10/50	Stop screw for series F2 sensors
	AS 08/40	Stop screw for series F2 sensors
	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey
	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	AS 08/15	Stop screw for series F2 sensors

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