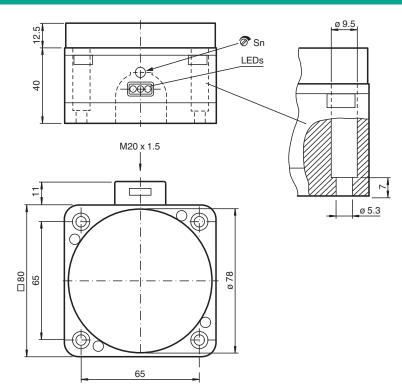


Inductive sensor NJ60-FP-A2-P1-Y237069

- 60 mm non-flush
- Detects stainless steel tubes in bottles
- Steam restistant
- 1. oscillator frequency



Dimensions



Technical Data

Release date: 2023-12-08 Date of issue: 2023-12-08 Filename: 237069_eng.pdf

General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	Sn	60 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	Sa	0 50 mm
Measuring body		high grade steel tube
Reduction factor r _{AI}		0.4
Reduction factor r _{Cu}		0.3

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

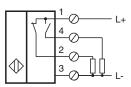
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Technical Data		
Reduction factor r ₃₀₄		0.85
Bottle speed		ca. 2.5 m/s (65000 btls./h)
Output type		4-wire
Adjustment aid		LED, green/red
Nominal ratings		, , , , , , , , , , , , , , , , , , , ,
Operating voltage	U _B	10 30 V
Switching frequency	f	0 100 Hz
Hysteresis	Н	typ. 3 %
Pulse extension		100 ms
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤3V
Operating current	U IL	0 200 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	≤ 20 ms
Operating voltage indicator	••	LED, green
Switching state indicator		LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		cULus Listed, General Purpose
Ambient conditions		
Ambient temperature		0 60 °C (32 140 °F)
Mechanical specifications		
Connection type		screw terminals
Information for connection		A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 %
Core cross section		up to 2.5 mm ²
Minimum core cross-section		without wire end ferrule 0.5 mm ² , with connector sleeves 0.34 mm ²
Maximum core cross-section		without wire end ferrule 2.5 mm ² , with connector sleeves 1.5 mm ²
Housing material		POM
Sensing face		POM
Degree of protection		IP68

Connection



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

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Mounting

Installation

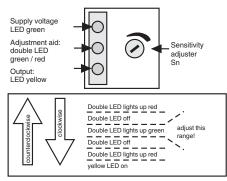
The sensor should be mounted at least 30 mm above the conveyor chain. This ensures, that the sensor will not be influenced by the conveyor chain.

Adjustment:

For correct operation, the sensor has to be adjusted according to the application. The adjustment has to be carried out without the object, which has to be detected.

- 1) Supply the sensor (10 ... 30 V DC). leuchtet die grüne LED.
- 2) If the output is activated, the yellow LED is on
- The adjustment is made without measuring body

The double LED in the middle has to light up green. If it doesn't, turn the sensitivity adjuster clockwise until the LED lights up yellow. Now turn the sensitivity adjuster counterclockwise until the double LED lights up green.



Function check:

To check the correct adjustment, test the reliable detection of a stainless steel test tube in the bottle.

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

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