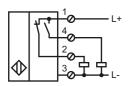


NJ60-FP-A2-P1-Y237070

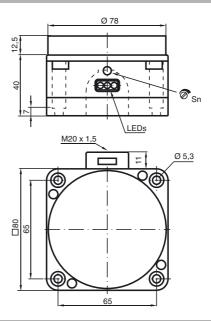
Features

- 60 mm not embeddable
- Detects stainless steel tubes in bottles
- Steam restistant
- 2. oscillator frequency

Connection



Dimensions



Technical Data

General specifications	
Switching element fund	

Switching element function		PNP	NO/NC	
Rated operating distance	s _n	60 mm		
Installation		not embe	eddable	
Output polarity		switched	high	
Assured operating distance	sa	0 50 m		
Measuring body		high grad	le steel tube	
Reduction factor r _{Al}		0.4		
Reduction factor r _{Cu}		0.3		
Reduction factor r ₃₀₃		0.85		
Bottle speed		ca. 2.5 m	n/s (65000 btls./h)	
Adjustment aid		LED, gre	en/red	

Nominal ratings

Operating voltage	U_{B}	10 30 V
Switching frequency	f	0 100 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	IL	0 200 mA
No-load supply current	I ₀	≤ 20 mA
Operating voltage display		LED, green
Indication of the switching state		LED, yellow

Ambient conditions

0 ... 60 °C (32 ... 140 °F) Ambient temperature

Mechanical specifications

screw terminals up to 2.5 mm² POM Connection type Core cross-section Housing material POM IP68 Sensing face Protection degree

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

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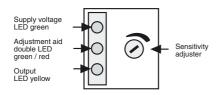
Installation hint

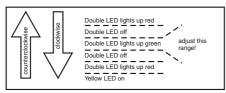
Installation:

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.

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

- Supply the sensor (10 ... 30 V DC). The green LED is on.
- If the output is activated, the yellow LED is on
- 3. 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.

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