

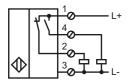
# **Model Number**

NJ60-FP-A2-P1-Y237069

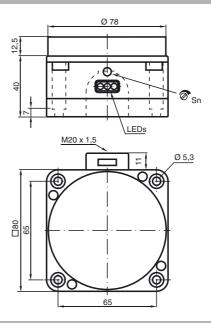
### **Features**

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

### Connection



### **Dimensions**



### **Technical Data**

| General s | specifications |
|-----------|----------------|
|-----------|----------------|

| district an operation             |                |           |                     |  |
|-----------------------------------|----------------|-----------|---------------------|--|
| Switching element function        |                | PNP       | NO/NC               |  |
| Rated operating distance          | s <sub>n</sub> | 60 mm     |                     |  |
| Installation                      |                |           | eddable             |  |
| Output polarity                   |                | switche   | d high              |  |
| Assured operating distance        | sa             | 0 50      | mm                  |  |
| Measuring body                    |                | high gra  | de steel tube       |  |
| Reduction factor r <sub>Al</sub>  |                | 0.4       |                     |  |
| Reduction factor r <sub>Cu</sub>  |                | 0.3       |                     |  |
| Reduction factor r <sub>303</sub> |                | 0.85      |                     |  |
| Bottle speed                      |                | ca. 2.5 i | m/s (65000 btls./h) |  |
| Adjustment aid                    |                | LED, gr   | een/red             |  |

Nominal ratings

| Operating voltage                 | U <sub>B</sub> | 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 <sub>0</sub> | ≤ 20 mA                    |
| Operating voltage display         |                | LED, green                 |
| Indication of the switching state |                | LED vellow                 |

Ambient conditions

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

**Mechanical specifications** Connection type screw terminals up to 2.5 mm<sup>2</sup> POM 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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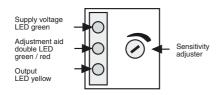
## **Installation hint**

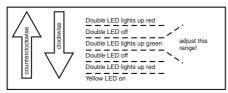
#### Installation:

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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