



Model Number

NJ60-FP-E2-P2

Features

- 3-wire DC
- Surface mount
- Sensing range 60 mm
- Operating distance adjustable via potentiometer

Technical Data

General specifications

Switching element function	PNP	NO
Rated operating distance	s_n	60 mm
Installation		non-flush
Output polarity		switched high
Assured operating distance	s_a	0 ... 48.6 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.85
Adjustment aid		LED, green/red

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 20 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	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, red

Ambient conditions

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

Mechanical specifications

Connection type	screw terminals
Core cross-section	up to 2.5 mm ²
Housing material	POM
Sensing face	POM
Degree of protection	IP65

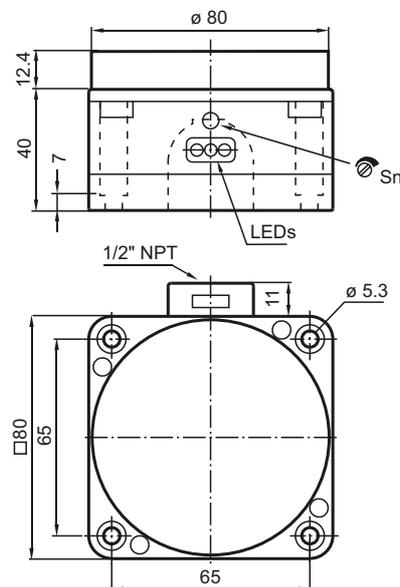
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

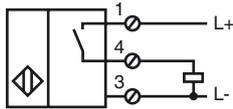
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

Dimensions



Electrical Connection



Installation Hint

Installation

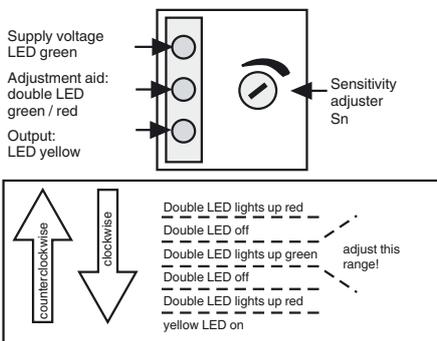
The sensor should be mounted at least 30 mm above the conveyor chain. This ensures, that the sensor will not be influenced by the conveyor chain.

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
- 3) 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.