CE

## Model Number

**NJ40-FP-A2-B1-P1**
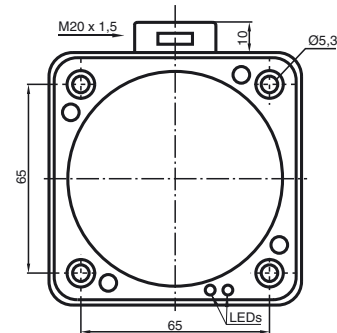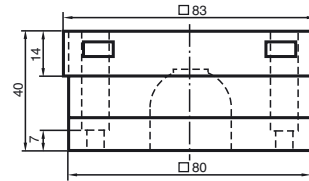
## Features

- **Comfort series**
- **40 mm embeddable**

## Connection
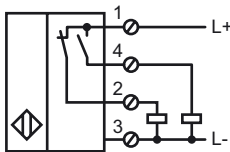


## Dimensions



## Technical Data

**General specifications**

| | | |
|---|---|---|
| Switching element function | | PNP        Antivalent |
| Rated operating distance | $s_n$ | 40 mm |
| Installation | | embeddable |
| Output polarity | | DC |
| Assured operating distance | $s_a$ | 0 ... 32.4 mm |
| Reduction factor $r_{Al}$ | | 0.38 |
| Reduction factor $r_{Cu}$ | | 0.38 |
| Reduction factor $r_{V2A}$ | | 0.83 |

**Nominal ratings**

| | | |
|---|---|---|
| Operating voltage | $U_B$ | 10 ... 60 V |
| Switching frequency | f | 0 ... 100 Hz |
| Hysteresis | H | 0 ... 5  typ. 3  % |
| Reverse polarity protection | | protected against reverse polarity |
| 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 |
| Operating voltage display | | LED, green |
| Indication of the switching state | | LED, yellow |

**Standard conformity**

| | |
|---|---|
| Standards | IEC / EN 60947-5-2:2004 |

**Ambient conditions**

| | |
|---|---|
| Ambient temperature | -25 ... 70 °C (248 ... 343 K) |

**Mechanical specifications**

| | |
|---|---|
| Connection type | terminal compartment |
| Core cross-section | up to 2.5 mm$^2$ |
| Housing material | PBT |
| Sensing face | PBT |
| Protection degree | IP67 |

**PEPPERL+FUCHS**
*SENSING YOUR NEEDS*

## Installation hint

These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the sensor is afforded a high degree of mechanical protection. No clearance is required between the sensor and the base plate, avoiding the need for protective guarding to prevent possible foot injury.

The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.
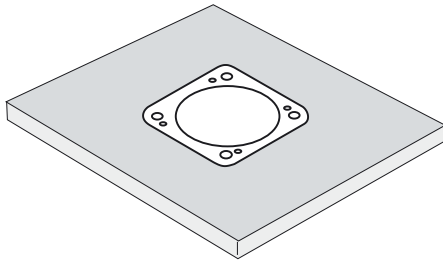


Warning!
Once the metal screening has been removed, the sensor can no longer be embeddable mounted.

**PEPPERL+FUCHS**
*SENSING YOUR NEEDS*