| | Technical |
|------------------------------------|-------------------------------------|
| 6 | General specifi |
| | Switching elen Rated operatin |
| | Installation |
| | Output polarity Assured opera |
| and the second of the | Reduction fact |
| | Reduction fact |
| A TOTAL | Reduction fact |
| 10 | Nominal rating |
| | Operating volta |
| | Switching freq |
| | Hysteresis Reverse polari |
| | Short-circuit p |
| C C C | Voltage drop |
| | Operating curr |
| | Off-state curre |
| | No-load supply |
| | Time delay be |
| | Operating volta |
| | Switching state Functional safe |
| | |
| | MTTF _d Mission Time (|
| Model Number | Diagnostic Co |
| | Ambient condit |
| NCB40-FP-A2-P1-V1 | Ambient tempe |
| | Mechanical spe |
| Features | Connection typ |
| Comfort covico | Housing mater |
| Comfort series | Sensing face |

1

- 40 mm flush

Accessories

V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable V1-W Female connector, M12, 4-pin, field attachable V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable V1-G Female connector, M12, 4-pin, field attachable

| Technical Data | | |
|-------------------------------------|----------------|--------------|
| General specifications | | |
| Switching element function | | PNP |
| Rated operating distance | s _n | 40 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | sa | 0 32.4 |
| Reduction factor rAI | | 0.25 |
| Reduction factor r _{Cu} | | 0.23 |
| Reduction factor r ₃₀₄ | | 0.85 |
| Nominal ratings | | |
| Operating voltage | UB | 10 60 |
| Switching frequency | f | 0801 |
| Hysteresis | Н | typ. 3 % |
| Reverse polarity protection | | reverse |
| Short-circuit protection | | pulsing |
| Voltage drop | Ud | ≤ 3 V |
| Operating current | Ι | 0200 |
| Off-state current | l, | 0 0.5 |
| No-load supply current | i _o | \leq 20 mA |
| Time delay before availability | tv | ≤ 300 m |
| Operating voltage indicator | | LED, gro |
| Switching state indicator | | LED, ye |
| Functional safety related parameter | ers | |
| MTTFd | | 630 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Ambient conditions | | |
| Ambient temperature | | -25 7 |
| Mechanical specifications | | |
| Connection type | | Connec |
| Housing material | | PBT |
| Sensing face | | PBT |
| Housing base | | PBT |
| Degree of protection | | IP68 |
| Compliance with standards and di | rectives | |
| Prondord conformity | | |

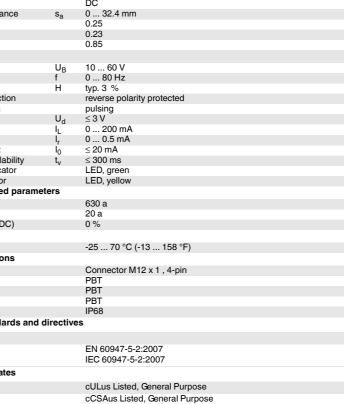
Standard conformity

Standards

Approvals and certificates

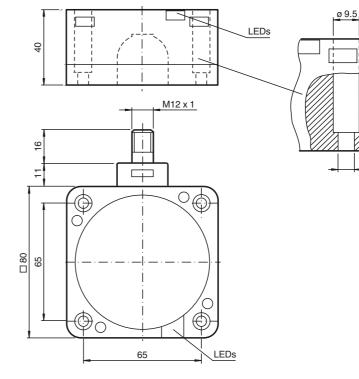
- UL approval
- CSA approval CCC approval

Dimensions



NO/NC

Certified by China Compulsory Certification (CCC)





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

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NCB40-FP-A2-P1-V1

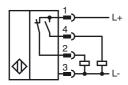
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NCB40-FP-A2-P1-V1

Electrical Connection



Pinout



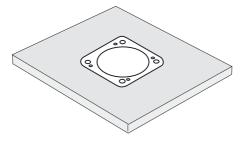
Wire colors in accordance with EN 60947-5-2

| 1 | BN | (brown) |
|---|----|---------|
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |
| | | |

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.



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