



Model Number

NJ4-12GK40-E2

Features

- 4 mm non-flush

Accessories

BF 12
Mounting flange, 12 mm

Technical Data

General specifications

| | | |
|----------------------------|-------|---------------|
| Switching element function | PNP | NO |
| Rated operating distance | s_n | 4 mm |
| Installation | | non-flush |
| Output polarity | | switched high |
| Assured operating distance | s_a | 0 ... 3.24 mm |
| Reduction factor r_{Al} | | 0.37 |
| Reduction factor r_{Cu} | | 0.36 |
| Reduction factor r_{304} | | 0.74 |

Nominal ratings

| | | |
|--------------------------------|-------|----------------------------|
| Operating voltage | U_B | 10 ... 60 V |
| Switching frequency | f | 0 ... 2000 Hz |
| Hysteresis | H | 1 ... 10 typ. 3 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0 ... 200 mA |
| No-load supply current | I_0 | ≤ 15 mA |
| Time delay before availability | t_v | ≤ 20 ms |
| Switching state indication | | - |

Functional safety related parameters

| | |
|--------------------------------|--------|
| MTTF _d | 1580 a |
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

Mechanical specifications

| | |
|--------------------|----------------------|
| Connection type | cable PUR , 2 m |
| Core cross-section | 0.34 mm ² |
| Housing material | PBT |
| Sensing face | PBT |
| Protection degree | IP68 |

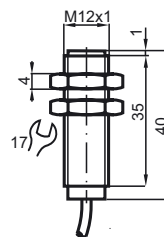
Compliance with standards and directives

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

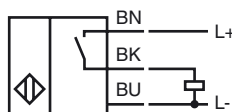
Approvals and certificates

| | |
|--------------|---|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |
| CCC approval | Certified by China Compulsory Certification (CCC) |

Dimensions



Electrical Connection



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