



Model Number

NJ5-18GK50-E2

Features

- 5 mm flush

Accessories

BF 18

Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop

Technical Data

General specifications

| | | |
|----------------------------|-------|---------------|
| Switching element function | PNP | NO |
| Rated operating distance | s_n | 5 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 4.05 mm |
| Reduction factor r_{AI} | | 0.3 |
| Reduction factor r_{CU} | | 0.25 |
| Reduction factor r_{304} | | 0.7 |

Nominal ratings

| | | |
|--------------------------------|-------|----------------------------|
| Installation conditions | | |
| A | | 0 mm |
| B | | 0 mm |
| C | | 15 mm |
| Operating voltage | U_B | 10 ... 60 V |
| Switching frequency | f | 0 ... 1500 Hz |
| Hysteresis | H | 1 ... 15 typ. 6 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0 ... 200 mA |
| Lowest operating current | I_m | 0 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. 0.01 mA |
| No-load supply current | I_0 | ≤ 9 mA |
| Time delay before availability | t_v | ≤ 30 ms |

Functional safety related parameters

| | |
|--------------------------------|--------|
| MTTF _d | 1100 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 PVC , 2 m |
| Core cross-section | 0.5 mm ² |
| Housing material | PBT |
| Sensing face | PBT |
| Protection degree | IP68 |

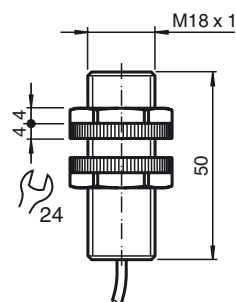
Compliance with standards and directives

| | |
|---------------------|---|
| 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

