

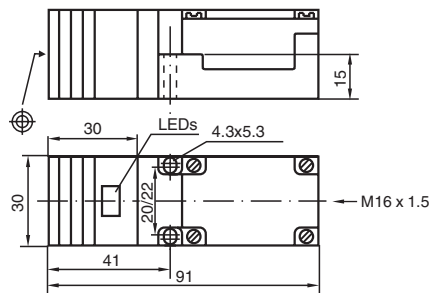
Inductive sensor

NJ15-M1K-A2

- 15 mm non-flush
- 4-wire DC



Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|----------------|
| Switching function | | complementary |
| Output type | | PNP |
| Rated operating distance | s_n | 15 mm |
| Installation | | non-flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 12.15 mm |
| Reduction factor r_{Al} | | 0.39 |
| Reduction factor r_{Cu} | | 0.36 |
| Reduction factor r_{304} | | 0.73 |
| Output type | | 4-wire |

Nominal ratings

| | | |
|--------------------------------|-------|----------------|
| Operating voltage | U_B | 10 ... 60 V DC |
| Switching frequency | f | 0 ... 200 Hz |
| Hysteresis | H | typ. 5 % |
| Reverse polarity protection | | yes |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 2.5 V |
| Operating current | I_L | 0 ... 200 mA |
| No-load supply current | I_0 | ≤ 14.5 mA |
| Time delay before availability | t_v | ≤ 50 ms |
| Operating voltage indicator | | LED, green |

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Technical Data

| | |
|---|--|
| Switching state indicator | LED, yellow |
| Functional safety related parameters | |
| MTTF _d | 932 a |
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |
| Compliance with standards and directives | |
| Standard conformity | |
| Standards | EN IEC 60947-5-2 |
| Approvals and certificates | |
| UL approval | cULus Listed, General Purpose |
| CCC approval | Certified by China Compulsory Certification (CCC) |
| Ambient conditions | |
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Mechanical specifications | |
| Connection type | screw terminals |
| Information for connection | A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 % |
| Core cross section | up to 2.5 mm ² |
| Minimum core cross-section | without wire end ferrules 0.5 mm ² , with connector sleeves 0.34 mm ² |
| Maximum core cross-section | without wire end ferrules 2.5 mm ² , with connector sleeves 1.5 mm ² |
| Housing material | PBT |
| Sensing face | PBT |
| Degree of protection | IP67 |
| Dimensions | |
| Height | 30 mm |
| Width | 30 mm |
| Length | 91 mm |

Connection

