

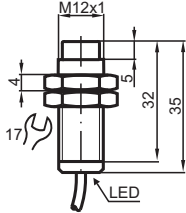
Inductive sensor NCN8-12GM35-Z4



- 8 mm non-flush
- 2-wire DC
- Increased operating distance



Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|--------------------|
| Switching function | | Normally open (NO) |
| Output type | | Two-wire |
| Rated operating distance | s_n | 8 mm |
| Installation | | non-flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 6.48 mm |
| Reduction factor r_{Al} | | 0.49 |
| Reduction factor r_{Cu} | | 0.49 |
| Reduction factor r_{304} | | 0.74 |
| Output type | | 2-wire |

Nominal ratings

| | | |
|-------------------|-------|--------------|
| Operating voltage | U_B | 3.5 ... 30 V |
|-------------------|-------|--------------|

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 109739_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

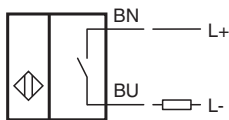
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|---|
| Switching frequency | f | 0 ... 750 Hz |
| Hysteresis | H | typ. 3 % |
| Reverse polarity protection | | reverse polarity-conductive |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3.5 V |
| Temperature drift | | $\pm 15\%$ |
| Operating current | I_L | 2 ... 100 mA |
| Off-state current | I_r | 0.4 ... 0.6 mA typ. 0.5 mA |
| Switching state indicator | | LED, yellow |
| Pre-fault indicator | | LED, red |
| Stability control-switch point | | 0,8 s _r ... 0,9 s _r |
| Functional safety related parameters | | |
| MTTF _d | | 1010 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| Standards | | EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 |
| Approvals and certificates | | |
| UL approval | | cULus Listed, General Purpose |
| CSA approval | | cCSAus Listed, General Purpose |
| CCC approval | | CCC approval / marking not required for products rated ≤ 36 V |
| 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 | | 0.34 mm ² |
| Housing material | | brass, nickel-plated |
| Sensing face | | PBT |
| Degree of protection | | IP67 |

Connection



Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 109739_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

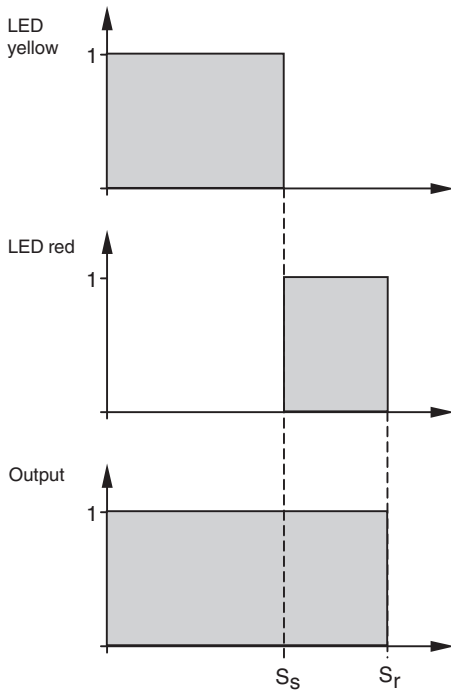
Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com


 PEPPERL+FUCHS

Characteristic Curve

Correlation between output signal/LED-function and stable operating distance s_S /effective operating distance s_r : (s_S typ. 80 % of s_r)



Accessories

| | | |
|---|--------------|------------------------|
|  | BF 12 | Mounting flange, 12 mm |
|---|--------------|------------------------|

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 109739_eng.pdf

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