

IN5435



Inductive sensor

IN-3004-APKG/0,3M/AS



- 1 threaded bush M3 Depth 5.8 mm
Tightening torque maximum 1.2 Nm screw fixing class 8.8
when brass insert in contact with counterpart



Product characteristics

| | | |
|-------------------|------|-----------------|
| Electrical design | | PNP |
| Output function | | normally closed |
| Sensing range | [mm] | 4 |
| Housing | | rectangular |
| Dimensions | [mm] | 40 x 12 x 26 |

Electrical data

| | | |
|-----------------------------|------|--|
| Operating voltage | [V] | 10...36 DC; ("supply class 2" according to UL) |
| Current consumption | [mA] | < 15 |
| Protection class | | III |
| Reverse polarity protection | | yes |

Outputs

| | | |
|---|------|-----------------|
| Electrical design | | PNP |
| Output function | | normally closed |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 250 |
| Switching frequency DC | [Hz] | 1300 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |

Detection zone


| | | |
|-----------------------|------|----------|
| Sensing range | [mm] | 4 |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance | [mm] | 0...3.25 |

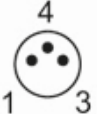
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| Accuracy / deviations | | |
|---|---|--------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 | |
| Hysteresis [% of Sr] | 1...15 | |
| Switch point drift [% of Sr] | -10...10 | |
| Operating conditions | | |
| Ambient temperature [°C] | -25...80 | |
| Protection | IP 67 | |
| Tests / approvals | | |
| EMC | EN 61000-4-2 | 8 kV CD / 15 kV AD |
| | EN 61000-4-3 HF radiated | 10 V/m |
| | EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-5 Surge | 0,5 kV line to line, Ri: 2 Ohm |
| | EN 61000-4-6 HF conducted | 10 V |
| | EN 55011 emission | class B |
| MTTF [years] | 1925 | |
| UL approval | Ta | -25...40 °C |
| | Enclosure type | Type 1 |
| | voltage supply | Class 2 |
| | File number UL | E174191 |
| Mechanical data | | |
| Weight [g] | 26.7 | |
| Housing | rectangular | |
| Mounting | non-flush mountable | |
| Dimensions [mm] | 40 x 12 x 26 | |
| Materials | PBT | |
| Displays / operating elements | | |
| Display | switching status | 1 x LED, yellow |
| Remarks | | |
| Pack quantity | 1 pcs. | |
| Electrical connection - plug | | |
| Cable: 0.3 m, PUR, Ø 3.5 mm; 3 x 0.14 mm ² | | |
| Connector: 1 x M8, straight | | |
|  | | |



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Connection

