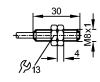
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NE5001

IEA2001-N/1D/1G





| Product characteristics | | |
|------------------------------------|---------------|---|
| Inductive sensor | | |
| Metal thread M8 x 1 | | |
| Cable | | |
| ATEX approval | | |
| Group II, category 1D/1G | | |
| Sensing range 1 mm; [f] fl | ush mountat | ble |
| Electrical data | | |
| Electrical design | | Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW |
| Nominal voltage | [V] | 8.2 DC; (1kΩ) |
| Supply voltage | [V] | 7.530 DC; when used outside the hazardous area |
| Current consumption | [mA] | < 1 disabled; (> 2.1 mA enabled) |
| Protection class | | III |
| Outputs | | |
| Output function | | normally closed |
| Current rating | [mA] | < 30; when used outside the hazardous area |
| Switching frequency | [Hz] | 2000 |
| Monitoring range | | |
| Sensing range | [mm] | 1 |
| Real sensing range (Sr) | [mm] | 1 ± 10 % |
| Accuracy / deviations | | |
| Correction factors | | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3 |
| Hysteresis | [% of Sr] | 115 |
| Switch-point drift | [% of Sr] | -1010 |
| Environment | | |
| Ambient temperature | [°C] | -2080 |
| Protection | | IP 67 |
| Tests / approvals | | |
| Approval | | PTB 01 ATEX 2191 BVS 04 ATEX E153 |
| Marking of the unit | | ⟨€ҳ⟩II 1G Ex ia IIC T6 Ga Ta: -2070° C |
| | | |
| | | € II 1G Ex ia IIC T5 Ga Ta: -2080° C |
| | | € II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C |
| | | ⊡ ⊛II 1G Ex ia IIC T5 Ga Ta: -2080° C |
| EMC | | € II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C |
| EMC Shock / vibration resistanc | e | € II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C € II 1D Ex ia IIIC T100° C Da Ta: -2080° C |
| | ce [Years] | € II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C € II 1D Ex ia IIIC T100° C Da Ta: -2080° C EN 60947-5-6 |

efectoriod

NE5001

Inductive sensors

| IEA2001-N/1D/1G | | | Inductive sensors |
|--|------------|---|-------------------|
| Internal capacitance | [nF] | < 80 | |
| Internal inductance | [µH] | < 70 | |
| Mechanical data | | | |
| Mounting | | flush mountable | |
| Housing materials | | brass special coating; active face: PBT | |
| Weight | [kg] | 0.092 | |
| Electrical connection | | | |
| Connection | | PVC cable / 2 m; 2 x 0.14 mm ² | |
| Wiring Core colors BN brown BU blue | \diamond | | |
| Accessories | | | |
| Accessories (included) | | 2 lock nuts | |
| Remarks | | | |
| Pack quantity | [piece] | 1 | |

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