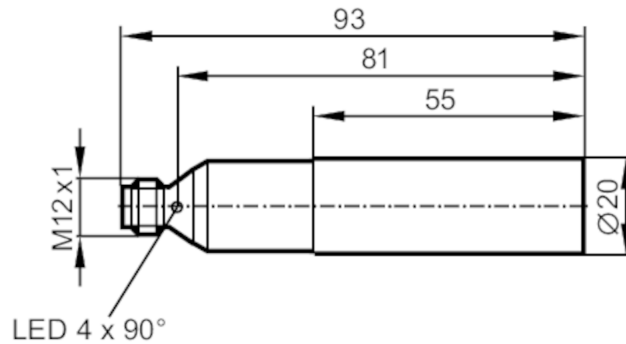


IA5127



Inductive sensor

IA-3010-BPKG/US-104-DPS



Product characteristics

| | | |
|-------------------|------|---------------|
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 10 |
| Housing | | cylindrical |
| Dimensions | [mm] | Ø 20 / L = 93 |

Electrical data

| | | |
|-----------------------------|------|------------|
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | 15; (24 V) |
| Protection class | | II |
| Reverse polarity protection | | yes |

Outputs

| | | |
|---|------|---------------|
| Electrical design | | PNP |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 250 |
| Switching frequency DC | [Hz] | 300 |
| Short-circuit protection | | yes |
| Overload protection | | yes |

Detection zone

| | | |
|-----------------------|------|-----------|
| Sensing range | [mm] | 10 |
| Real sensing range Sr | [mm] | 10 ± 10 % |
| Operating distance | [mm] | 0...8.1 |

Accuracy / deviations

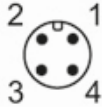
| | | |
|--------------------|-----------|---|
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis | [% of Sr] | 1...15 |
| Switch point drift | [% of Sr] | -10...10 |

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Inductive sensor

IA-3010-BPKG/US-104-DPS

| Operating conditions | | |
|---|---------------------------|--------------------------------|
| Ambient temperature | [°C] | -25...80 |
| Protection | | IP 67 |
| Tests / approvals | | |
| EMC | EN 61000-4-2 ESD | 8 kV AD |
| | EN 61000-4-3 HF radiated | 3 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 | 3 V |
| MTTF | [years] | 1801 |
| UL approval | Ta | 0...40 °C |
| | Enclosure type | Type 1 |
| | power supply | Hazardous voltage |
| | File number UL | E174191 |
| Mechanical data | | |
| Weight | [g] | 75.5 |
| Housing | | cylindrical |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | Ø 20 / L = 93 |
| Materials | | PBT |
| Displays / operating elements | | |
| Display | switching status | 4 x 90° LED, yellow |
| Accessories | | |
| Items supplied | | Mounting clamps: 1 |
| | | Mounting clamps:, E10016 |
| Remarks | | |
| Pack quantity | | 1 pcs. |
| Electrical connection - plug | | |
| Connector: 1 x M12; coding: A | | |
|  | | |

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IA-3010-BPKG/US-104-DPS

Connection

