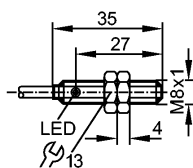


IE5406

IEB3003-BPKG/V4A/5M/US

Inductive sensors



Product characteristics

| |
|--|
| Inductive sensor |
| Metal thread M8 x 1 |
| Cable with connector |
| Sensing range 3 mm; [nf] non-flush mountable |

Electrical data

| | |
|-----------------------------|------------|
| Electrical design | DC PNP |
| Operating voltage [V] | 10...36 DC |
| Current consumption [mA] | < 15 |
| Protection class | III |
| Reverse polarity protection | yes |

Outputs

| | |
|--------------------------|---------------|
| Output function | normally open |
| Voltage drop [V] | < 2.5 |
| Current rating [mA] | 200 |
| Short-circuit protection | pulsed |
| Overload protection | yes |
| Switching frequency [Hz] | 300 |

Range

| | |
|------------------------------|----------|
| Sensing range [mm] | 3 |
| Real sensing range (Sr) [mm] | 3 ± 10 % |
| Operating distance [mm] | 0...2.4 |

Accuracy / deviations

| | |
|------------------------------|--|
| Correction factors | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3 |
| Hysteresis [% of Sr] | 1...20 |
| Switch-point drift [% of Sr] | -10...10 |

Environment

| | |
|--------------------------|--------|
| Ambient temperature [°C] | 0...70 |
| Protection | IP 67 |

Tests / approvals

| | |
|-----|---|
| EMC | EN 61000-4-2 ESD: 4 kV CD / 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: 20hm) EN 61000-4-6 HF conducted: 3 V EN 55011 (Emission): class B |
|-----|---|

| | |
|--------------|------|
| MTTF [Years] | 2819 |
|--------------|------|

Mechanical data

| | |
|----------|---------------------|
| Mounting | non-flush mountable |
|----------|---------------------|

IE5406

IEB3003-BPKG/V4A/5M/US

Inductive sensors

| | |
|-------------------|--|
| Housing materials | stainless steel 316Ti / 1.4571; active face: PBT |
|-------------------|--|

| | | |
|--------|------|-------|
| Weight | [kg] | 0.136 |
|--------|------|-------|

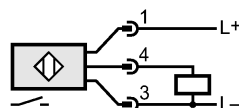
Displays / operating elements

| | | |
|--------------------------|-----|-----|
| Output status indication | LED | Red |
|--------------------------|-----|-----|

Electrical connection

| | |
|------------|--|
| Connection | PVC cable / 5 m; 3 x 0.14 mm ² ; with M12 connector |
|------------|--|

Wiring



Accessories

| | |
|------------------------|-------------|
| Accessories (included) | 2 lock nuts |
|------------------------|-------------|

Remarks

| | | |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|