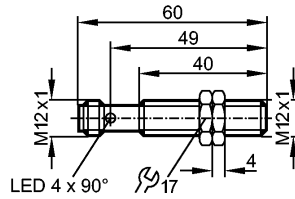


IFT240

IFK3003BBPKG/AM/US-104-DPS

Inductive sensors



Made in Germany



Product characteristics

| |
|---|
| Inductive sensor |
| Metal thread M12 x 1 |
| Connector |
| Full metal housing |
| Increased sensing range |
| Gold-plated contacts |
| Sensing range 3 mm; [f] flush mountable |

Electrical data

| | |
|-----------------------------|------------|
| Electrical design | DC PNP |
| Operating voltage [V] | 10...36 DC |
| Current consumption [mA] | < 20 |
| Protection class | III |
| Reverse polarity protection | yes |

Outputs

| | |
|--------------------------|---------------|
| Output function | normally open |
| Voltage drop [V] | < 2.5 |
| Leakage current [mA] | < 0.1 |
| Current rating [mA] | 100 |
| Short-circuit protection | pulsed |
| Overload protection | yes |
| Switching frequency [Hz] | 100 |

Range

| | |
|-------------------------|---------|
| Sensing range [mm] | 3 |
| Operating distance [mm] | 0...2.4 |

Accuracy / deviations

| | |
|----------------------|--|
| Correction factors | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.1 |
| Hysteresis [% of Sr] | 1...20 |

Environment

| | |
|--------------------------|----------------|
| Pressure rating [bar] | 100; *) |
| Ambient temperature [°C] | 0...100 |
| Protection | IP 68 / IP 69K |

Tests / approvals

| | |
|-----|--|
| EMC | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD |
| | EN 61000-4-3 HF radiated: 10 V/m (80...2000 MHz) |
| | EN 61000-4-4 Burst: 2 kV |
| | EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) |
| | EN 55011 (Emission): class B |

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Inductive sensors

| | | |
|-------------------|------------------------|-----|
| Impact resistance | DIN EN 60068-2-75 Ehc: | 1 J |
|-------------------|------------------------|-----|

| | | |
|--------------|--|------|
| MTTF [Years] | | 1633 |
|--------------|--|------|

Mechanical data

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

| | | |
|-------------------|--|--|
| Housing materials | housing: stainless steel 316L / 1.4404; active face: stainless steel 316L / 1.4404; lock nuts: stainless steel 316L / 1.4404; connector housing: PEI | |
|-------------------|--|--|

| | | |
|-------------|--|------|
| Weight [kg] | | 0.03 |
|-------------|--|------|

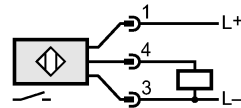
Displays / operating elements

| | | |
|--------------------------|-----|------------------|
| Output status indication | LED | yellow (4 x 90°) |
|--------------------------|-----|------------------|

Electrical connection

| | | |
|------------|-------------------------------------|--|
| Connection | M12 connector; Gold-plated contacts | |
|------------|-------------------------------------|--|

Wiring



Accessories

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

Remarks

| | | |
|---------|-----------------|--|
| Remarks | *) sensing face | |
|---------|-----------------|--|

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