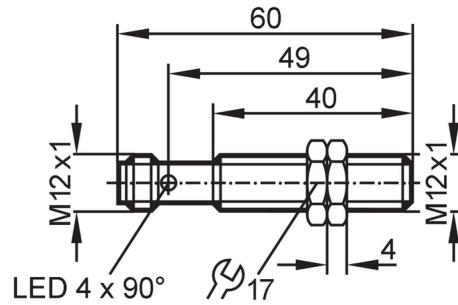


IFC263



Inductive full-metal sensor

IFK32,5BBPKG/AM/US-104/K0



Product characteristics

| | |
|--------------------|------------------|
| Electrical design | PNP |
| Output function | normally open |
| Sensing range [mm] | 2.5 |
| Housing | Threaded type |
| Dimensions [mm] | M12 x 1 / L = 60 |

Application

| | | |
|-------------------------|--|--------|
| Special feature | gold-plated contacts; Increased sensing range; Full-metal housing; correction factor = 0 | |
| Application | Oils and coolants; Ferrous only; aluminum chip immune | |
| Pressure rating | 100 bar | 10 MPa |
| Note on pressure rating | sensing face | |

Electrical data

| | |
|-----------------------------|------------|
| Operating voltage [V] | 10...30 DC |
| Current consumption [mA] | < 20 |
| Protection class | III |
| 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] | 100 |
| Switching frequency DC [Hz] | 100 |
| Short-circuit protection | yes |
| Type of short-circuit protection | yes (non-latching) |
| Overload protection | yes |

Monitoring range

| | |
|-------------------------|----------|
| Sensing range [mm] | 2.5 |
| Operating distance [mm] | 0...2.02 |
| Increased sensing range | yes |

Accuracy / deviations

| | |
|-------------------|---------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.5 |
|-------------------|---------------------------------|

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| | | |
|-----------------------|-----------|--------|
| Hysteresis | [% of Sr] | 1...20 |
| Correction factor = 0 | | yes |

Operating conditions

| | | |
|---------------------|------|--------------------|
| Ambient temperature | [°C] | -25...70 |
| Protection | | IP 68; ("Coolant") |

Tests / approvals

| | | |
|----------------------------|---------------------------|-------------------------|
| EMC | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | EN 61000-4-3 HF radiated | 10 V/m |
| | EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-6 HF conducted | 10 V |
| | EN 55011 | class B |
| Impact resistance | EN 60068-2-27 Ehc | 1 J |
| MTTF | [years] | 1114 |
| Embedded software included | | yes |
| UL approval | Ta | -25...70 °C |
| | Enclosure type | Type 1 |
| | voltage supply | Limited Voltage/Current |
| | UL approval number | A012 |
| | File number UL | E174191 |

Mechanical data

| | | |
|--------------------|------|--|
| Weight | [g] | 28.1 |
| Housing | | Threaded type |
| Mounting | | flush mountable |
| Dimensions | [mm] | M12 x 1 / L = 60 |
| Thread designation | | M12 x 1 |
| Material | | housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: brass white bronze coated |
| Tightening torque | [Nm] | 15 |
| Full-metal housing | | yes |

Displays / operating elements

| | | |
|---------|------------------|---------------------|
| Display | Switching status | 4 x 90° LED, yellow |
|---------|------------------|---------------------|

Accessories

| | | |
|----------------|--|--------------|
| Items supplied | | lock nuts: 2 |
|----------------|--|--------------|

Remarks

| | | |
|---------------|--|--------|
| Pack quantity | | 1 pcs. |
|---------------|--|--------|

Electrical connection



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Connection



Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated