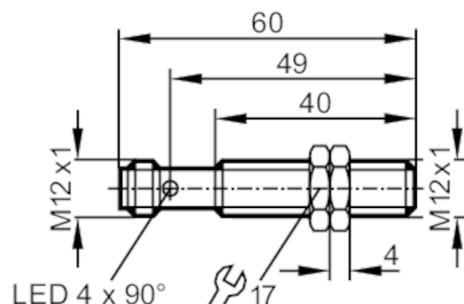


Inductive full-metal sensor

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

| | |
|-------------------------|--|
| System | gold-plated contacts; Increased sensing range; Full-metal housing; correction factor = 0 |
| Application | Oils and coolants |
| Media | Ferrous only; aluminum chip immune |
| Pressure rating [bar] | 100 |
| 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 |



Inductive full-metal sensor

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

| | | |
|-------------------------------|--|-------------------------|
| Increased sensing range | yes | |
| Accuracy / deviations | | |
| Correction factor | steel: 1 / stainless steel: 0.5 | |
| 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] | 1258 | |
| 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. | |

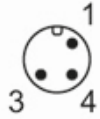
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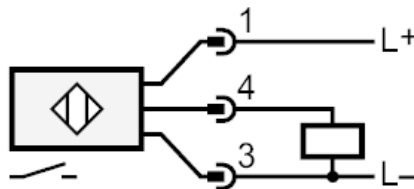
Inductive full-metal sensor

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

Electrical connection



Connection



Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated