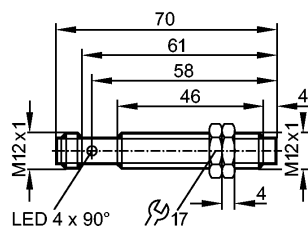


## IF5904

IFK4004-CPKG/US-104-DPA

Inductive sensors



Made in Germany



### Product characteristics

Inductive sensor

Metal thread M12 x 1

Connector

Sensing range 4 mm; [nf] non-flush mountable

### Electrical data

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

### Outputs

|                          |               |
|--------------------------|---------------|
| Output function          | complementary |
| Voltage drop [V]         | < 2.5         |
| Current rating [mA]      | 250           |
| Short-circuit protection | pulsed        |
| Overload protection      | yes           |
| Switching frequency [Hz] | 1400          |

### Range

|                              |          |
|------------------------------|----------|
| Sensing range [mm]           | 4        |
| Real sensing range (Sr) [mm] | 4 ± 10 % |
| Operating distance [mm]      | 0...3.25 |

### 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...15                                                                                             |
| Switch-point drift [% of Sr] | -10...10                                                                                           |

### Environment

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

### Tests / approvals

|              |              |
|--------------|--------------|
| EMC          | EN 60947-5-2 |
| MTTF [Years] | 1865         |

### Mechanical data

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Mounting          | non-flush mountable                                        |
| Housing materials | Brass white bronze coated; active face: PC (polycarbonate) |
| Weight [kg]       | 0.031                                                      |

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Inductive sensors

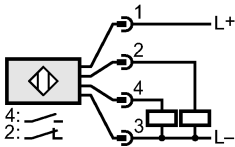
Displays / operating elements

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

Electrical connection

|            |               |
|------------|---------------|
| Connection | M12 connector |
|------------|---------------|

Wiring



Accessories

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

Remarks

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