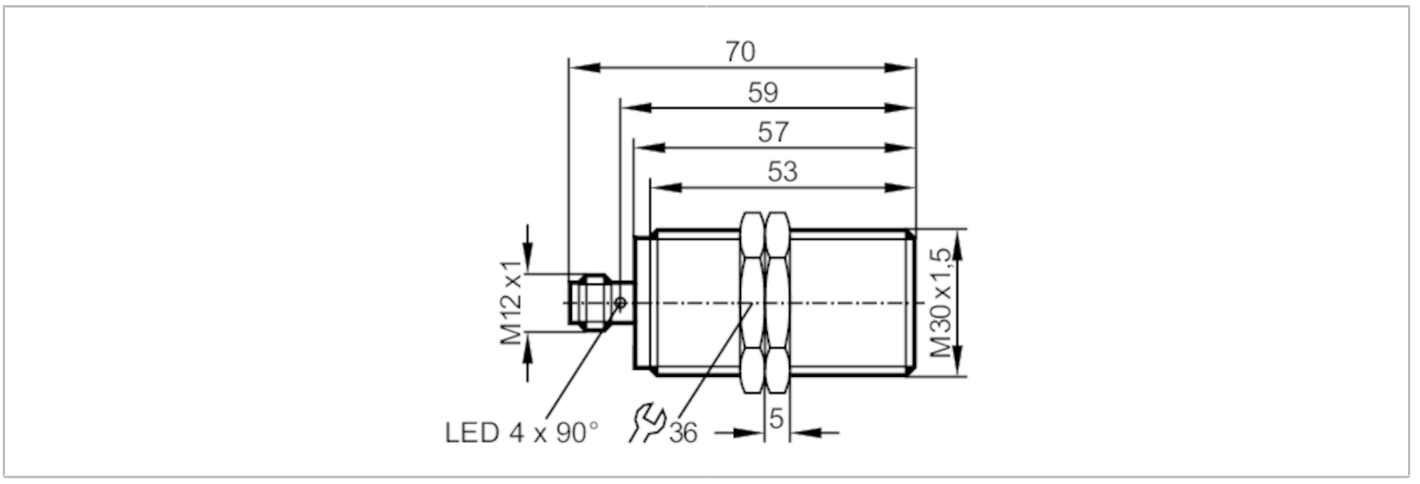
# II5917

## Inductive analogue sensor

IIK4010A2PKG/IO/US




| | | |
|---|---|---|
| **Product characteristics** | | |
| Housing | | threaded type |
| Dimensions | [mm] | M30 x 1.5 / L = 70 |
| **Electrical data** | | |
| Operating voltage | [V] | 15...30 DC |
| Current consumption | [mA] | < 20 |
| Protection class | | II |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Analogue voltage output | [V] | 0...10; (linear; gradient: 1,111 V/mm; for frontal approach and for target made of mild steel: 30 x 30 x 1 mm) |
| Min. load resistance | [Ω] | 2000 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Measuring range | [mm] | 1...10 |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Linearity error of analogue output | [%] | ± 3 %; (of UA max) |
| Repeatability analogue output | [%] | ± 2 %; (of UA max) |
| **Response times** | | |
| Response time | [ms] | < 10 |
| **Operating conditions** | | |
| Ambient temperature | [°C] | -25...80 |
| Protection | | IP 67 |
| **Tests / approvals** | | |
| MTTF | [years] | 222 |

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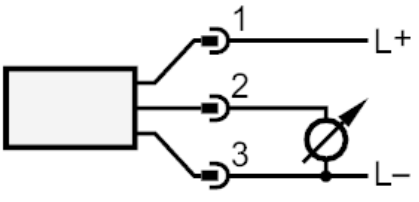
| Mechanical data | | |
|---|---|---|
| Weight | [g] | 151 |
| Housing | | threaded type |
| Mounting | | flush mountable |
| Dimensions | [mm] | M30 x 1.5 / L = 70 |
| Thread designation | | M30 x 1.5 |
| Materials | | housing: brass white bronze coated; sensing face: PBT |
| Tightening torque | [Nm] | 50 |

| Displays / operating elements | | |
|---|---|---|
| Display | within the operating range | 1 x LED, yellow lights |
| | outside the operating range | 1 x LED, yellow flashing |

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

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

**Electrical connection - plug**

Connector: 1 x M12; coding: A

Connection