



1) not included in scope of delivery, 2) Housing length, 3) Recommended bracket distance, 4) Null point, 5) Nominal length, 6) Mechanical null point, 7) Stroke



Basic features

| | |
|---------------------|-----------------------------|
| Approval/Conformity | CE UKCA cULus WEEE |
| Generation | 1 |
| Version | Version P1 |

Display/Operation

| | |
|---------|-----------------------------|
| Setting | Output curve rising/falling |
|---------|-----------------------------|

Electrical connection

| | |
|-----------------------------|-----------------------|
| Connection | M12x1, 8-pin |
| Connection version | axial |
| Polarity reversal protected | to 36 V |
| Short-circuit protection | to GND and to 36 V DC |

Electrical data

| | |
|--------------------------------------|--------------------------|
| Current consumption max. at 24 V DC | 110 mA |
| Galvanic isolation | yes |
| Inrush current | ≤ 3 A/0.5 ms |
| Load resistance RL max. | 500 Ohm |
| Operating voltage Ub | 18...30 VDC |
| Output signal adjustable | using programming inputs |
| Overvoltage protection | to 36 V |
| Residual ripple max. | 0.5 Vpp |
| Switch-on delay max. | 500 ms |
| Voltage-proof up to (GND to housing) | 500 V DC |

Environmental conditions

| | |
|-------------------------|----------------------|
| Ambient temperature | -20...85 °C |
| EN 60068-2-27, Shock | 100 g, 6 ms |
| EN 60068-2-6, Vibration | 12 g, 10...2000 Hz |
| IP rating | IP54, with connector |
| Storage temperature | -40...100 °C |

Functional safety

| | |
|--------------|------|
| MTTF (40 °C) | 69 a |
|--------------|------|

Interface

| | |
|-------------------------------|---------------------------|
| Analog output | Analog, current 0...20 mA |
| Bracket distance, recommended | 80 mm |
| Output characteristic | linear rising/falling |

Material

| | |
|------------------|-------------------------------|
| Cover material | Zinc, Die-cast, nickel plated |
| Housing material | Aluminium, Anodized |

Mechanical data

| | |
|------------------------|-----------------|
| Housing length | 200 mm |
| Hub | 110 mm |
| Mounting part | Mounting clamps |
| Tightening torque max. | 2 Nm |

Inductive Sensors
BIW1-C310-M0100-P1-S115
Order Code: BIW001K



Range/Distance

| | |
|--------------------|--------|
| Measuring range | 100 mm |
| Nominal length | 100 mm |
| Non-linearity max. | ±20 µm |

| | |
|---------------------|-----------|
| Reproducibility | ≤10 µm |
| Resolution | ≤ 0.35 µA |
| Sampling rate typ. | 32 kHz |
| Traverse speed max. | 7 m/s |

Connector Drawings



Wiring Diagrams

| Pin | |
|-----|-----------|
| 1 | Lb |
| 2 | 0 V |
| 3 | NC |
| 4 | La |
| 5 | 0...20 mA |
| 6 | GND |
| 7 | +24V DC |
| 8 | NC |