



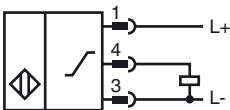
Model Number

IA8-30GM-I3-V1-Y188393

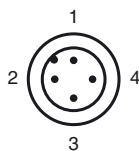
Features

- Inductive analog
- Output 4 mA ... 20 mA
- Embeddable mounting

Connection



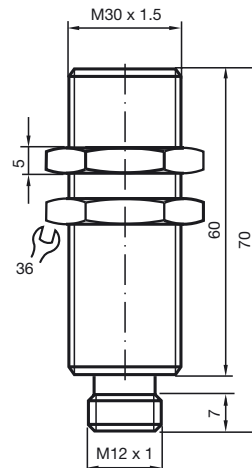
Pinout



Wire colors in accordance with EN 60947-5-2

| | |
|---|----|
| 1 | BN |
| 2 | WH |
| 3 | BU |
| 4 | BK |

Dimensions



Technical Data

General specifications

| | |
|----------------------------|-----------------------|
| Switching element function | Analog current output |
| Installation | embeddable |
| Output polarity | DC |
| Measurement range | 3 ... 8 mm |

Nominal ratings

| | | |
|---------------------------------|-------|----------------------------|
| Operating voltage | U_B | 15 ... 30 V |
| Output signal | | 4 ... 20 mA |
| Temperature drift | | $\pm 0.1\% / K$ max. value |
| Repeat accuracy | | 0 ... 15 μm |
| Operating voltage | | $\leq 0.5\%$ |
| Rate of current rise | | |
| 4 ... 20 mA | | $\leq 3.5 A/s$ |
| 20 ... 4 mA | | $\leq 3.3 A/s$ |
| Output ripple | | $\pm 30 \mu A$ |
| Recovery time | | 1 ... 10 ms typ. 5 ms |
| No-load supply current | I_0 | $\leq 8 mA$ |
| Load resistor | | 0 ... 500 Ohm |
| Adjustment tolerance zero point | | $\pm 10\%$ v.E. |

Ambient conditions

| | |
|---------------------|-------------------------------|
| Ambient temperature | -10 ... 70 °C (14 ... 158 °F) |
|---------------------|-------------------------------|

Mechanical specifications

| | |
|-------------------|----------------------------------|
| Connection type | Device connector M12 x 1 , 4-pin |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Protection degree | IP67 |

Compliance with standards and directives

| | |
|---------------------|--|
| Standard conformity | |
| Standards | EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 60947-5-7:2003 IEC 60947-5-7:2003 |

Approvals and certificates

| | |
|--------------|--------------------------------|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |

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