



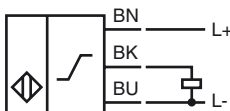
Model Number

IA15-30GM-I3

Features

- Inductive analog
- Output 0 mA ... 20 mA
- Non-flush mountable

Connection



Accessories

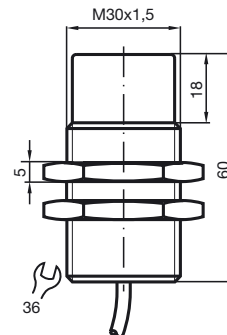
BF 30

Mounting flange, 30 mm

DA5-IU-C

Digital display unit

Dimensions



Technical Data

General specifications

| | |
|----------------------------|-----------------------|
| Switching element function | Analog current output |
| Installation | non-flush |
| Output polarity | DC |
| Measurement range | 5 ... 15 mm |

Nominal ratings

| | | |
|------------------------|-------|------------------|
| Operating voltage | U_B | 15 ... 30 V |
| Repeat accuracy | | 0 ... 15 μ m |
| No-load supply current | I_0 | \leq 10 mA |

Functional safety related parameters

| | |
|--------------------------------|--------|
| MTTF _d | 2880 a |
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Analog output

| | |
|---------------------------------|--|
| Output type | 0 ... 20 mA |
| Linearity error | $\leq \pm 10$ % of full-scale value |
| Load resistor | \leq 500 Ω |
| Recovery time | 1 ... 10 ms, typ. 5 ms |
| Adjustment tolerance zero point | $\leq \pm 10$ % of full-scale value |
| Temperature drift | $\leq \pm 0.1$ %/K of full-scale value |
| Operating voltage | \leq 0.5 % |
| Residual ripple | \pm 30 μ A |

Ambient conditions

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

Mechanical specifications

| | |
|--------------------|----------------------|
| Connection type | cable PVC, 2 m |
| Core cross-section | 0.5 mm ² |
| 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 |
| CCC approval | CCC approval / marking not required for products rated \leq 36 V |

Curves

Output characteristics

