



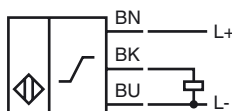
Model Number

IA8-30GM-I3

Features

- Inductive analog
- Output 0 mA ... 20 mA
- Flush mounting

Connection



Accessories

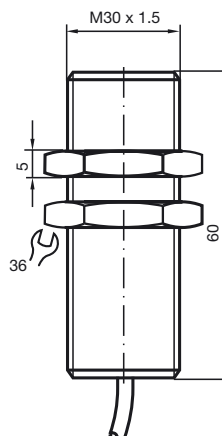
BF 30

Mounting flange, 30 mm

DA5-IU-C

Digital display unit

Dimensions



Technical Data

General specifications

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

Nominal ratings

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

Functional safety related parameters

MTTF _d	2860 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	$\leq 500 \Omega$
Rate of current rise	
0 ... 20 mA	max. 3.5 A/s
20 ... 0 mA	max. 3.3 A/s
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	≤ 0.5 %
Residual ripple	$\pm 30 \mu$ A

Ambient conditions

Ambient temperature	-10 ... 70 °C (14 ... 158 °F)
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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	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.