



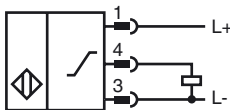
**Model Number**

IA5-18GM60-I3-V1-Y35172

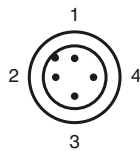
**Features**

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

**Connection**



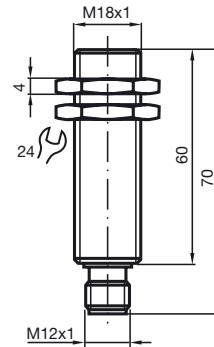
**Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	Analog current output
Installation	flush
Output polarity	DC
Measurement range	2 ... 5 mm

**Nominal ratings**

Operating voltage	$U_B$	15 ... 30 V
Output signal		0 ... 20 mA
Repeat accuracy		$\pm 6 \mu\text{m}$
Temperature drift		$\pm 0.1\%/K$ max. value
Operating voltage		$\leq 1\%$
Rate of current rise		
0 ... 20 mA		$\leq 5.1 \text{ A/s}$
20 ... 0 mA		$\leq 4 \text{ A/s}$
Output ripple		$\pm 30 \mu\text{A}$
Recovery time		1 ... 10 ms typ. 5 ms
No-load supply current	$I_0$	$\leq 10 \text{ mA}$
Load resistor		0 ... 500 Ohm
Adjustment tolerance zero point		$\pm 10\%$ v.E.

**Functional safety related parameters**

MTTF <sub>d</sub>	2480 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0%

**Ambient conditions**

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