



Wire draw encoders EcoLine

BCG08-A1AM0318



Model Name > **BCG08-A1AM0318**
Part No. > **1061025**



Illustration may differ

At a glance

- Measuring lengths of 1.25 m, 3 m, 5 m, and 10 m.
- Very small dimension (55 ... 190 mm)
- Modular system: encoder type, measuring length, and interface can be selected
- Programmable encoders: Resolution, interface and measuring range
- Light yet shock-proof and temperature-resistant plastic housing (Noryl)
- Space-saving and cost-effective design
- Analog interface with pushbutton teach at the encoder

Your benefits

- Easy to install thanks to pushbutton teach
- Suitable for tight installation spaces as a result of slim, compact design
- High precision due to the elimination of the coupling between the encoder and mechanism
- Wide range of applications thanks to the numerous encoders, interfaces, and measuring lengths
- The absolute analog output allows for the use of a cost-effective interface card
- Options for customization, such as programmability, reduce storage and downtime costs
- Greater vibration resistance thanks to the integration of the spring in the measuring drum



Performance

Measuring range:	0 m ... 3 m
Repeatability:	$\pm 0.005\%$ ¹⁾
Linearity:	$\pm 0.01\%$ ²⁾
Hysteresis:	$\pm 0.1\%$ ³⁾
Resolution:	0.06 mm

^{1) 2) 3)} Value refers to wire draw mechanism

Mechanical data

Mass (including encoder):	510 g
Mass (mechanics):	250 g
Measuring wire diameter:	0.55 mm
Housing material, wire draw mechanism:	Plastic, Noryl
Drum extent:	230 mm
Spring return force:	Ca. 5 N ... ca. 6.3 N ¹⁾

Life of wire draw mechanism:	1 million cycles
Actual length of cable extension:	3.2 m
Wire acceleration:	10 m/s ²
Operating speed:	4 m/s
Mounted encoder:	AFM60 SSI
Mounted mechanic:	MRA-G080-103D3
Part number mechanic:	5322778
Part number encoder:	1037438

¹⁾ These values were measured at an ambient temperature of 25 °C. There may be variations at other temperatures.

Electrical data

Initialization time:	Ca. 50 ms ¹⁾
Code type:	Gray
MTTFd: mean time to dangerous failure::	250 a ²⁾ ³⁾

¹⁾ Valid positional data can be read once this time has elapsed. ²⁾ This product is a standard product and does not constitute a safety component as defined in the Machinery Directive.

Calculation based on nominal load of components, average ambient temperature 40°C, frequency of use 8760 h/a. All

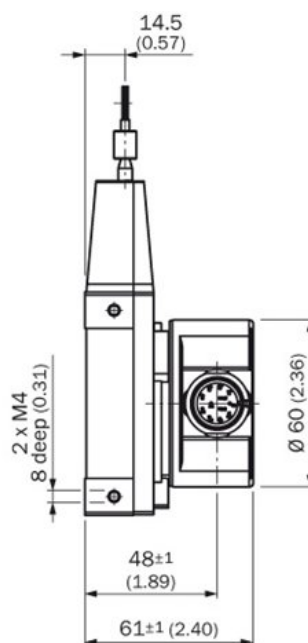
electronic failures are considered hazardous. For more information, see document no. 8015532. ³⁾ The value applies to the mounted encoder

Interfaces

Electrical interface:	SSI
Connection type:	Connector M23, 12-pin, radial
Clock frequency:	1 MHz 2 MHz
SET (electronic adjustment):	Via SET cable

Ambient data

EMC:	(according to EN 61000-6-2 and EN 61000-6-3)
Enclosure rating encoder:	IP 67
Enclosure rating mechanic:	IP 50
Resistance to shocks:	50 g, 6 ms (according to EN 60068-2-27)
Resistance to vibration:	20 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6)
Working temperature range:	-20 °C ... 70 °C, with AFM60B, 0 °C ... 70 °C, with AFM60E
Relative humidity/Condensation:	90 % (condensation of the optical scanning not permitted)

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