

BCG08-E1BM0399







Wire draw encoders EcoLine

Model Name > BCG08-E1BM0399

Part No. > 1061030



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



Illustration may diffe

Ether**CAT**→ C €

Performance

Measuring range:0 m ... 3 mRepeatability: $\pm 0.005 \%$ Linearity: $\pm 0.01 \%^{2}$ Hysteresis: $\pm 0.1 \%^{3}$ Resolution:0.001 mm

1) 2) 3) Value refers to wire draw mechanism

Mechanical data

Mass (including encoder):450 gMass (mechanics):250 gMeasuring wire diameter:0.55 mmHousing material, wire draw mechanism:Plastic, NorylDrum 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:

Wire acceleration:

Operating speed:

3.2 m

10 m/s²

4 m/s

Mounted encoder: AFM60 EtherCAT

Mounted mechanic: MRA-G080-103D3

Part number mechanic: 5322778
Part number encoder: 1059061

Electrical data

Initialization time:

MTTFd: mean time to dangerous failure::

Ca. 12 s

80 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. The value applies to the mounted encoder

Interfaces

Electrical interface: EtherCAT®

Connection type: Connector 3 x M12, 4-pin, axial

Protocol: EtherCAT, CoE (CiA DS-301)

SET (electronic adjustment): Via PRESET push button or protocol

Encoder profile: CiA DS-406

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: 100 g, 6 ms (according to EN 60068-2-27)

Resistance to vibration: 30 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6)

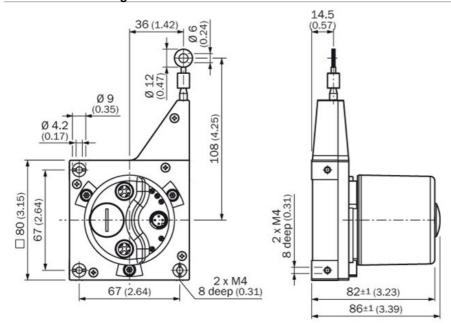
Working temperature range: -30 °C ... 70 °C

Relative humidity/Condensation: 90 % (condensation of the optical scanning not permitted)

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

¹⁾ Valid positional data can be read once this time has elapsed. 2) This product is a standard product and does not constitute a

Dimensional drawing



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