



Wire draw encoders EcoLine

BCG19-I1BM1099



Model Name > **BCG19-I1BM1099**
Part No. > **1061044**



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 ... 10 m
Repeatability:	$\pm 0.03\%$ ¹⁾
Linearity:	$\pm 0.05\%$ ²⁾
Hysteresis:	$\pm 0.04\%$ ³⁾
Resolution:	0.002 mm

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

Mechanical data

Mass (including encoder):	2.1 kg
Mass (mechanics):	1.9 kg
Measuring wire diameter:	0.55 mm
Housing material, wire draw mechanism:	Plastic, Noryl
Drum extent:	555 mm
Spring return force:	Ca. 9 N ... ca. 12 N ¹⁾

Life of wire draw mechanism:	1 million cycles
Actual length of cable extension:	10.2 m
Wire acceleration:	8 m/s ²
Operating speed:	4 m/s
Mounted encoder:	AFM60 EtherNet/IP
Mounted mechanic:	MRA-G190-110D3
Part number mechanic:	5326242
Part number encoder:	1055331

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

Electrical data

Initialization time:	Ca. 12 s ¹⁾
MTTFd: mean time to dangerous failure::	80 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:	EtherNet/IP
Connection type:	Connector 3 x M12, 4-pin, axial
Address setting:	Via DHCP/DEC-switches
Protocol:	EtherNet/IP IEC 61784-1
SET (electronic adjustment):	Via PRESET push button or protocol
Encoder profile:	0 x 22

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)

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