

PFG19-E1CM1029







Wire draw encoders EcoLine

Model Name > PFG19-E1CM1029

Part No. > 1061023



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 resolution, output voltage, and measuring range
- Light yet shock-proof and temperature-resistant plastic housing (Noryl)
- · Space-saving and cost-effective design

Your benefits

- · Easy, cost-efficient integration thanks to incremental interface
- · Suitable for tight installation spaces as a result of its slim, compact design
- High precision resulting from the elimination of a coupling between the encoder and mechanism
- Wide range of applications thanks to numerous encoders, interfaces, and measuring lengths
- 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 differ

Ether CAT CE

Performance

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

Mechanical data

Mass (including encoder): 2.2 kg Mass (mechanics): 1.9 kg 0.55 mm Measuring wire diameter: Housing material, wire draw mechanism: Plastic, Noryl 555 mm Drum extent: 9 N ... 12 N ¹⁾ Spring return force: Life of wire draw mechanism: 1 million cycles Actual length of cable extension: 10.2 m

Wire acceleration: 8 m/s²
Operating speed: 4 m/s
Mounted encoder: DFS60

Mounted mechanic: MRA-G190-110D3

Part number mechanic: 5326242
Part number encoder: 1037616

Electrical data

Maximum output frequency: 600 kHz

Reference signal, position: Electronically, gated with A and B Reference signal, number: 1, electronically, gated with A and B

Maximum load current: 30 mA

Initialization time:: ≤ 32 ms, with mechanical zero pulse width≤ 30 ms ^{1) 2)}

MTTFd: mean time to dangerous failure:: 300 a 300 a

1) 2) Valid positional data can be read once this time has elapsed. 3) 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. 4) The value applies to the mounted encoder

Interfaces

Electrical interface: HTL/Push pull

Connection type: Connector M12, 8-pin, radial

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

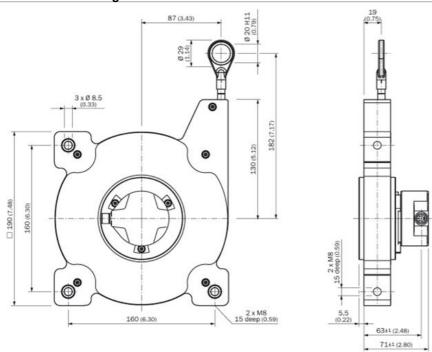
Resistance to vibration: 20 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6)

Working temperature range: -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.

Dimensional drawing



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