

BTF13-D1HM0525







Wire draw encoders HighLine

Model Name > BTF13-D1HM0525

Part No. > 1034312





Illustration may diffe

At a glance

- · Absolute wire draw encoders
- · Modular measuring system with a wide selection of interfaces/measuring lengths
- Measuring lengths: 2 m ... 50 m
- Very rugged system (dirt wiper, integrated brushes), highly shock and vibration resistant
- · High-quality winding mechanism and wire input
- Interfaces: ANALOG, SSI, PROFIBUS, CANopen, DeviceNet, HIPERFACE®
- · High enclosure rating
- · High resolution possible

Your benefits

- · Reliable solution in harsh environments
- · Long service life due to rugged industrial housing
- · Quick and easy installation without the need for precise linear guidance
- · Low integration and maintenance costs
- · Customization option reduces storage costs
- No reference run necessary thanks to the absolute measuring principle
- · Teach-in function enables fast commissioning

DeviceNet. (€

Performance

Measuring range:	0 m 5 m
Repeatability:	± 0.1 % 1)
Linearity:	± 0.1 % ²⁾
Hysteresis:	± 0.05 % ³⁾
Resolution:	0.04 mm

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

Mechanical data

Mass (including encoder):3.39 kgMass (mechanics):2.8 kgMeasuring wire diameter:1.35 mm

Housing material, wire draw mechanism: Aluminum (anodised), plastic

Drum extent: 334.1 mm

Spring return force: 15 N ... 20 N 1)

Life of wire draw mechanism: 1 million cycles

Actual length of cable extension: 5.2 m Wire acceleration: 70 m/s 2 Operating speed: 4 m/s

Mounted encoder: ATM60 DeviceNet
Mounted mechanic: MRA-F130-105D2

Part number mechanic: 6028626
Part number encoder: 1030018

Electrical data

Initialization time:

Ca. 12 s

MTTFd: mean time to dangerous failure::

Ca. 12 s

150 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: DeviceNet

Connection type: Bus adaptor with cable screw fixings or connector, radial 1)

Address setting: 0 ... 63, DIP-switches or protocol
Protocol: DeviceNet Specification Release 2.0

Bus termination: Via DIP switches

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

Encoder profile: Generic Profile

1) Please order the bus adaptor seperately

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

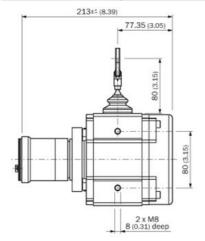
Working temperature range: -20 °C ... 70 °C

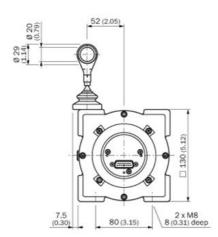
Relative humidity/Condensation: 98 % (condensation of the optical scanning not permitted)

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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