



Wire draw encoders HighLine

BTF08-C1HM0241



Model Name > **BTF08-C1HM0241**
Part No. > **1034317**

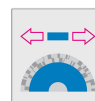


Illustration may differ

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



Performance

Measuring range:	0 m ... 2 m
Repeatability:	$\pm 0.1 \%$ ¹⁾
Linearity:	$\pm 0.1 \%$ ²⁾
Hysteresis:	$\pm 0.05 \%$ ³⁾
Resolution:	0.02 mm

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

Mechanical data

Mass (including encoder):	1.89 kg
Mass (mechanics):	1.3 kg
Measuring wire diameter:	1.35 mm
Housing material, wire draw mechanism:	Aluminum (anodised), die-cast zinc
Drum extent:	200 mm
Spring return force:	6 N ... 14 N ¹⁾
Life of wire draw mechanism:	1 million cycles

Actual length of cable extension:	2.2 m
Wire acceleration:	40 m/s ²
Operating speed:	4 m/s
Mounted encoder:	ATM60 CANopen
Mounted mechanic:	MRA-F080-102D2
Part number mechanic:	6028625
Part number encoder:	1030025

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::	150 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

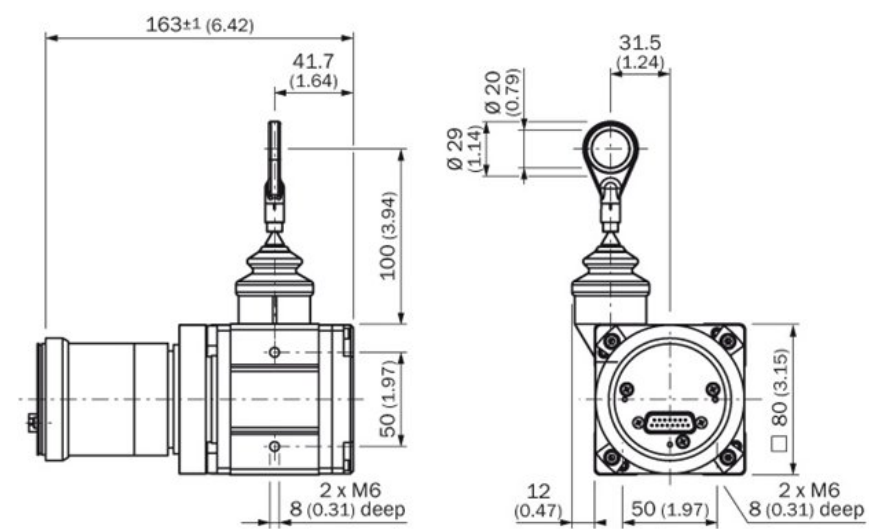
Electrical interface:	CANopen®
Connection type:	Bus adaptor with cable screw fixings or connector, radial ¹⁾
Address setting:	0 ... 63, DIP-switches or protocol
Protocol:	Communication Profile DS 301 V4.0
Bus termination:	Via DIP switches
SET (electronic adjustment):	Via PRESET push button or protocol
Encoder profile:	Device Profile DSP 406 V 2.0

¹⁾ Please order the bus adaptor separately

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)

Dimensional drawing



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