

ONLINE DATA SHEET
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Wire draw encoders
EcoLine

BCG08-K1KM03PP



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Model Name > BCG08-K1KM03PP
Part No. > 6039747

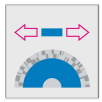




Illustration may differ

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

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Performance

Measuring range:	0 m ... 3 m
Repeatability:	≤ 0.2 mm [1)]
Linearity:	≤ ± 2 mm [2)]
Hysteresis:	≤ 0.4 mm [3)]
Resolution (wire draw + encoder)::	0.06 mm [4) 5)]

1) 2) 3) Value refers to wire draw mechanism 4) 5)

Mechanical data

Mass (including encoder):	650 g
Mass (mechanics):	250 g
Measuring wire diameter:	0.55 mm
Measuring wire material:	Highly flexible stranded steel 1.4401 stainless steel V4A
Housing material, wire draw mechanism:	Plastic, Noryl
Spring return force:	Ca. 5 N ... ca. 6.3 N [1)]

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Life of wire draw mechanism:	1 million cycles [2]
Actual length of cable extension:	3.2 m
Wire acceleration:	10 m/s²
Operating speed:	4 m/s
Mounted encoder:	ACM36
Mounted mechanic:	MRA-G080-103D3
Part number mechanic:	5322778
Part number encoder:	6039751
Mass (measuring wire):	1.2 g/m
Length of wire pulled out per revolution:	230 mm

[1] These values were measred at an ambient temperature of 25 °C. There may be variations at other temperatures. [2]

Electrical data

Initialization time:	≤ 2 ms [1]
Supply voltage:	19 V ... 33 V
Power consumption:	2 W

[1] Valid positional data can be read once this time has elapsed.

Interfaces

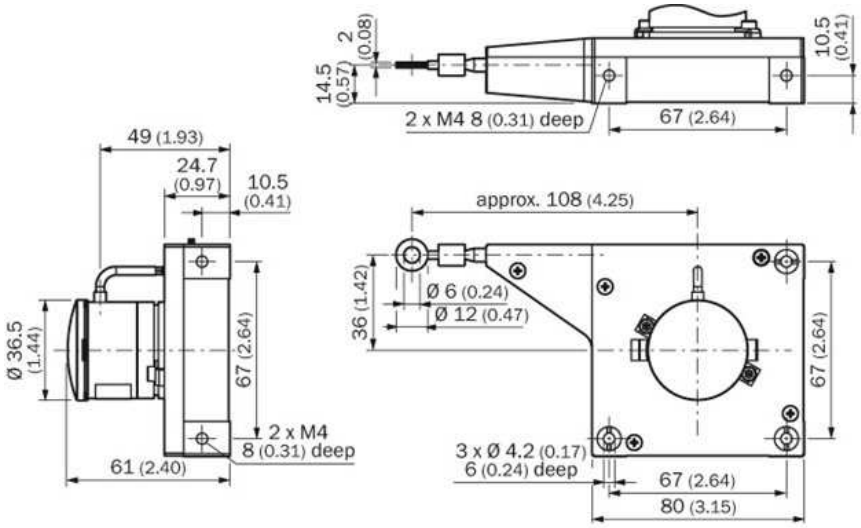
Electrical interface:	4 mA ... 20 mA, Analog
Electrical connection:	Cable, 3-wire, radial, 1.5 m
Clock frequency:	32 kHz
SET (electronic adjustment):	Über Programmierfolie
Encoder:	Absolute encoders

Ambient data

EMC:	(according to EN 61000-6-2 and EN 61000-6-3)
Enclosure rating encoder:	IP 65
Enclosure rating mechanic:	IP 50
Resistance to shocks:	50 g, 6 ms (according to EN 60068-2-27)
Resistance to vibration:	4 g, Sinus 5 Hz ... 100 Hz (according to EN 60068-2-6)
Working temperature range (encoder):	-30 °C ... +70 °C
Working temperature range (mechanics):	-30 °C ... +70 °C
Working temperature range (combination):	Wird definiert durch den höheren mininalen und niedrigeren maximalen Wert des Arbeitstemperaturbereichs von Encoder und Mechanik

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Dimensional drawing



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