

magnetic Encoder, digital outputs,
3 channels, 16 - 64 lines per revolution

For combination with
DC-Micromotors
Brushless DC-Motors

Series HXM3-64

		HXM3-64	
Lines per revolution	N	64	
Frequency range, up to ¹⁾	f	32	kHz
Signal output, square wave		2+1 Index	Channels
Supply voltage	U_{DD}	4,5 ... 5,5	V
Current consumption, typical ²⁾	I_{DD}	9	mA
Pulse width	P	180 ± 45	°e
Phase shift, channel A to B	Φ	90 ± 45	°e
Logic state width	S	90 ± 45	°e
Cycle	C	360 ± 30	°e
Signal rise/fall time, max. ($C_{LOAD} = 50$ pF)	tr/tf	60 / 60	µs
Inertia of sensor magnet ³⁾	J	0,02	gcm ²
Operating temperature range		-25 ... +85	°C

³⁾ No additional inertia for series 0620 ... B

For combination with Motor

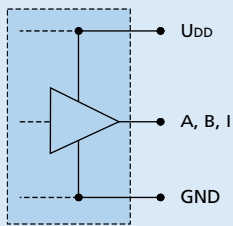
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Characteristics

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Specifications subject to change without notice.

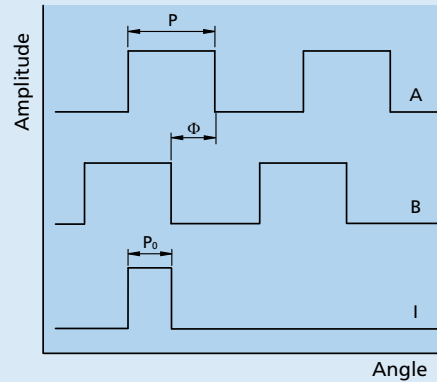
Circuit diagram / Output signals

Output circuit



Output signals

with clockwise rotation as seen from the shaft end



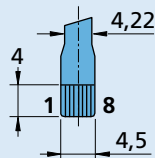
Caution: channel B leads channel A

Connector information / Variants

No.	Function
1	Motor +*
2	UDD
3	Channel I
4	Channel A
5	Channel B
6	Cfg2
7	GND
8	Motor -*

* Note: Brushless motors have separate motor leads.

Connection Encoder and Motor



Flexboard

8 circuits, 0,5 mm pitch

Recommended connector

Top contact style
8 circuits, 0,5 mm pitch, e.g.:
Molex: 52745

Full product description

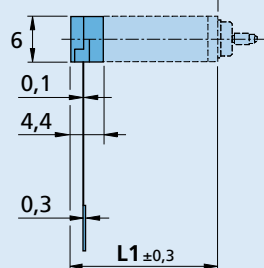
■ Examples:

0615N003S-K1707 HXM3-64

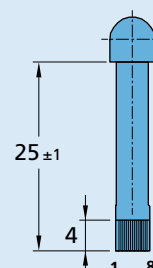
0620K012B-K1674 HXM3-64

Dimensional drawing A

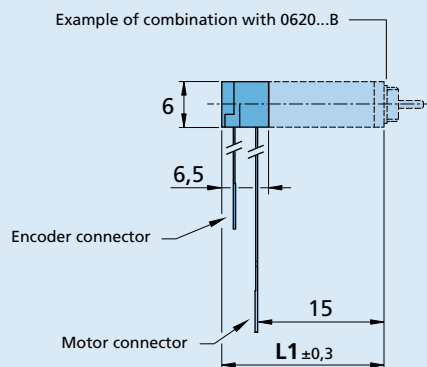
Example of combination with 0615...S



HXM3-64



Dimensional drawing B



HXM3-64

