

magnetic multi-turn absolute Encoder,
SSI Interface with BISS-C Protocol,
4096 steps per revolution, Line Driver

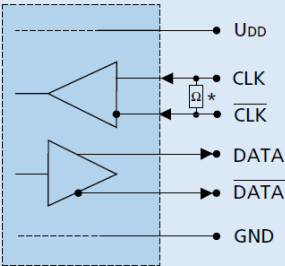
Steps per revolution		4 096	
Single-turn resolution		12 Bit	
Multi-turn resolution		16 Bit	
Signal output		SSI Interface with BISS-C Protocol	
Supply voltage	U_{DD}	4,5 ... 5	V
Current consumption, typical ¹⁾	I_{DD}	typ. 25, max. 35	mA
Battery voltage ²⁾		3 ... 5.5	V
Clock Frequency, max. (CLK and $\overline{\text{CLK}}$)		2	MHz
Input low level (CLK and $\overline{\text{CLK}}$)		0 ... 0.8	V
Input high level (CLK and $\overline{\text{CLK}}$)		2 ... 5	V
Setup time after power on, max.	t_{setup}	20	ms
Timeout, typ.	t_{timeout}	20	μs
Inertia of sensor magnet	J	0.08	gcm^2
Operating temperature range		-40 ... +100	$^{\circ}\text{C}$
Hysteresis		0.17	$^{\circ}\text{m}$
Mass, typ.		13.5	g

²⁾ Battery adapter available as accessory (article no. 6501.00368)

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Circuit diagram / Output signals

Output circuit

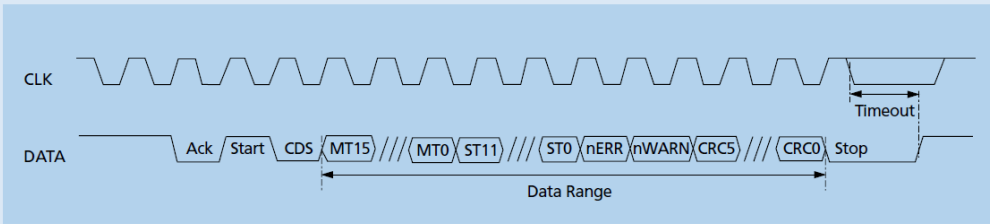


*Terminating resistor 120 Ω

Note: Data and Clock run inverted to the displayed signals Data and Clock.

Interface Protocol BISS-C

Angle position values are ascending for clockwise rotation.
Clockwise rotation as seen from the shaft end.



Connector information / Variants

Example product designation: 3242G024BX4 AEMT-12/16 L

Option	Type	Description	
5418	Connector	for combination with Brushless DC-Motor series B(S) BP4, and BXT H. Connector variants AWG 28 / PVC ribbon cable with connector Molex Picoblade, 51021-1000, recommended mating connector Picoblade 53047-1010.	
5419	Connector	for combination with Brushless DC-Motors series BX4. Connector variants AWG 28 / PVC ribbon cable with connector Molex Picoblade, 51021-1000, recommended mating connector Picoblade 53047-1010.	

Inclusive motor connector 3830

Standard cable

PVC-ribbon cable, 10-AWG 28, 1,27 mm

Note:

Motors with AEMT-12/16 L are commutated via the encoder and, by default, do not have any Hall sensors.

Caution:

incorrect lead connection will damage the motor electronics!

Dimensional drawing A

