

Absolute-Encoder CEV582 - POWERLINK

Ref.: K-CEV58_2-EPL-1

22.04.2022

010102058202030201



POWERLINK



Advantages

- Bus cover axial or radial
- Option: +SSI or +INC
- Parameterizable gear unit
- Preset "on the fly"
- Synchronous to the applicati

General Data

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	10/30 VDC
Nominal current, typically	
- Specific value	120 mA
- Condition	unloaded
Supply	
- In case of UL / CSA approval	according to NEC Class 2
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 33 Bit
Number of steps per revolution	<= 32768
Number of revolutions	<= 256000
Output capacity	<= 32 Bit
POWERLINK - Interface	
- POWERLINK	IEC 61784-2, IEC 61158 ff
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Device profile	CoE, CiA DS-406
- Communication profile	EPSS DS-301 V1.1.0
- POWERLINK Specification	V2.0

Subject to change.

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General Data continuation

SSI - Interface	
- Equipment	Optional interface
- SSI-Clock input	Optocoupler
- SSI-Data output	RS-422, 2-wire
- SSI-Clock frequency	80...1000 kHz
- SSI-Mono time, typically	4...999 µs
- Output code	Binär, Gray, Gray clipped
- Number of data bits	1...64
- Type of parametrization	programmable
Incremental - Interface	
- Equipment	Optional interface
- Signal form	Square wave
- Incremental signals, square	K1± K2± K0±
- Impulses, square wave	1...36000
- Output driver, TTL	RS-422, 5 VDC
- Output driver, HTL	Push-Pull, Supply Voltage
- Type of parametrization	programmable
Transmission rate	
- Specific value	100 MBit/s
Cycle time	>= 400 µs (Bus)
Parameter/Function, changeable	Resolution
	Node-ID
	Scaling parameter
	Counting direction
	Gear function
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Maximum Speed, mechanically	<= 12000 1/min
Shaft load, axial/radial	<= 50 N, <= 100 N
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	6000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	= 60 %
Point of origin, shaft load	Mounting flange + 10 mm
Shaft type	
- Shaft diameter [mm]	6
- Shaft diameter [mm]	8
- Shaft diameter [mm]	10

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General Data continuation

- Shaft diameter [mm]	12
- Shaft diameter ["]	1/4
- Shaft diameter ["]	3/8
- Shaft diameter ["]	1/2
Angular acceleration	$\leq 10E+4 \text{ rad/s}^2$
Moment of inertia, typically	$1.3E-6 \text{ kg m}^2$
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3 kg

Environmental conditions

Vibration	DIN EN 60068-2-6
- Specific value	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	DIN EN 60068-2-27
- Specific value	$\leq 1000 \text{ m/s}^2$
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	-20...+75 °C
- Optional	-40...+85 °C;
Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65
Resistance	
- against salt (seawater)	DIN EN IEC 60068-2-52
- Test method	Test method 1
- excluded are	Attachment parts

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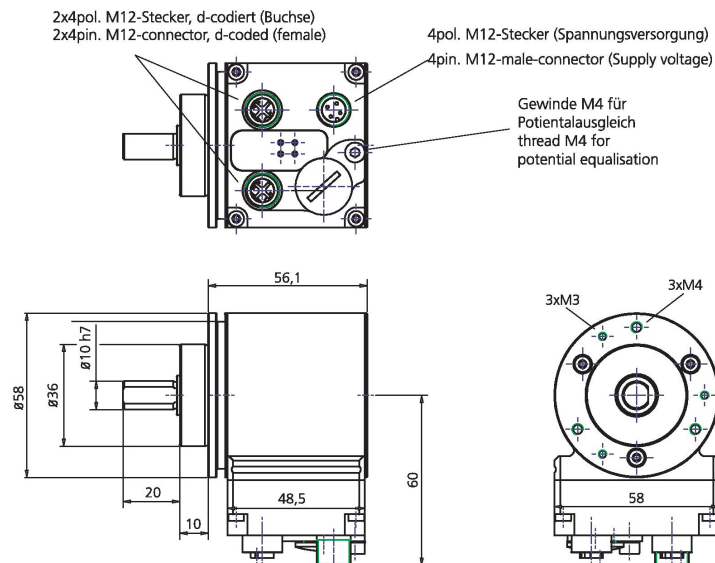
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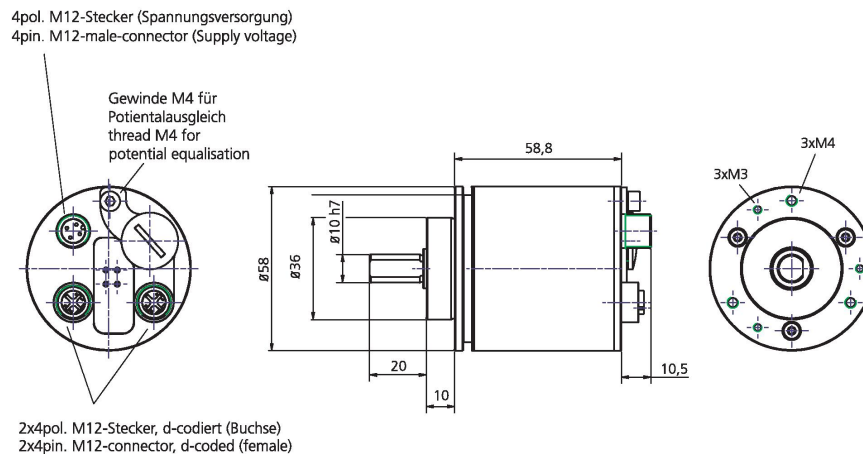
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Dimensional drawing

Radial



Axial



Fehlende Abmaße, siehe Art.-Nr. bezogene Zeichnung /
Missing dimensions, see drawing related to the order number

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Suggested products

CEV582M*8192/4096 EPL 50ZB10FL

CEV582M-00314

CEV582M*8192/4096 EPL 36ZB10FL

CEV582M-00331

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