

Absolute-Encoder CEV582 - PROFINET IO



Order No.: K-CEV58_2-PN-1
20.06.2026
010102058202030201

Advantages

- Fast start-up, FSU
- Isochronous applications, IRT
- Media-Redundancy Protocol, MRP
- PNO Encoder Profile, CL 3/4
- Preset "on the fly"

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	≤ 30 Bit

Änderungen vorbehalten.

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General Data

PROFINET IO - Interface	
- PROFINET IO – Device	IEC 61158, IEC 61784-1
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- PROFINET-Specification	V2.3
- Conformance Class	B, C
- Real-Time-Classes	Class 1, 2 (RT), Class 3 (IRT)
- Media Redundancy Protocol, MRP	yes, is supported
- PNO Encoder-Profile	Class 3 and 4, V4.1/V4.2
- Fast Start-Up (FSU)	3-times faster start-up
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
Preset writing cycles	>= 1 000 000
Parameter/Function, changeable	Addressing
	Adjustment - Parameter
	Scaling parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device

Änderungen vorbehalten.

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Maximum Speed, mechanically	≤ 12000 1/min
Shaft load, axial/radial	≤ 50 N, ≤ 100 N
Bearing life time	$\geq 3.9E+10$ 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
- Shaft diameter [mm]	12
- Shaft diameter ["]	1/4
- Shaft diameter ["]	3/8
- Shaft diameter ["]	1/2
Angular acceleration	$\leq 1.0E+5$ rad/s ²
Moment of inertia, typically	1.3E-6 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	≤ 100 m/s ²
- Sine	50...2000 Hz
Shock	DIN EN 60068-2-27
- Specific value	≤ 1000 m/s ²
- Half sine	6 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;

Änderungen vorbehalten.

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Environmental conditions

Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65
- Optional	extended to IP67
Resistance	
- against salt (seawater)	DIN EN IEC 60068-2-52
- Test method	Test method 1
- excluded are	Attachment parts

Änderungen vorbehalten.

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