

Absolute-Encoder CEV582 - IO-Link



Order No.: K-CEV58_2-IOL-1
20.06.2026
010102058202010201

Advantages

- Bus cover axial or radial
- Free digital input/output
- Industry 4.0 + IIoT pioneer
- Intelligent diagnoses
- Preset "on the fly"

General Data

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	18/30 VDC
Nominal current, typically	
- Specific value	50 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	≤ 31 Bit

Änderungen vorbehalten.

Absolute-Encoder CEV582 - IO-Link

Order No.: K-CEV58_2-IOL-1
20.06.2026
010102058202010201

General Data

SSI - Interface	
- Equipment	Optional interface
- SSI-Clock input	RS-422; 2-wire
- 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
IO-Link - Interface	
- IO-Link	IEC 61131-9
- Communication	Point-to-Point Connection
- Data transmission	3-wire, unshielded
- Port class	Type A
- IO-Link specification	V1.1
- Process data input	4-Bytes position data
- Process data input	4-Bytes velocity data
- Process data output	4-Bytes preset value
- Process data output	1-Byte preset control
- Cycle time	>= 1 ms
Transmission rate	
- Specific value	COM 3: 230.4 kbit/s
Preset writing cycles	>= 1 000 000
Parameter/Function, changeable	Preset parameter
	Adjustment - Parameter
	Scaling parameter
	Counting direction
	Velocity parameter
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

Änderungen vorbehalten.

TR-Electronic GmbH
Eglishalde 6
78647 Trossingen
Tel. +49 (0) 7425 228-0
info@tr-electronic.de
www.tr-electronic.de

Absolute-Encoder CEV582 - IO-Link

Order No.: K-CEV58_2-IOL-1
20.06.2026
010102058202010201

General Data

- 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	$\leq 1.0E+5 \text{ rad/s}^2$
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	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;
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

Änderungen vorbehalten.

Absolute-Encoder CEV582 - IO-Link

Order No.: K-CEV58_2-IOL-1
20.06.2026
010102058202010201

Environmental conditions

- Test method	Test method 1
- excluded are	Attachment parts

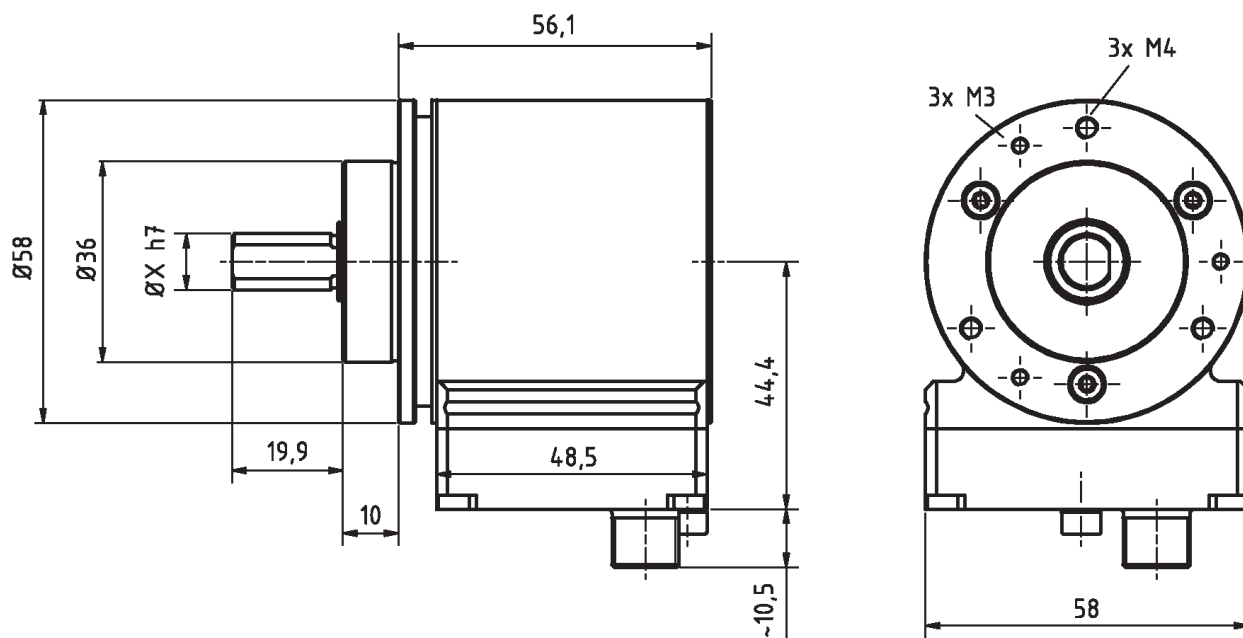
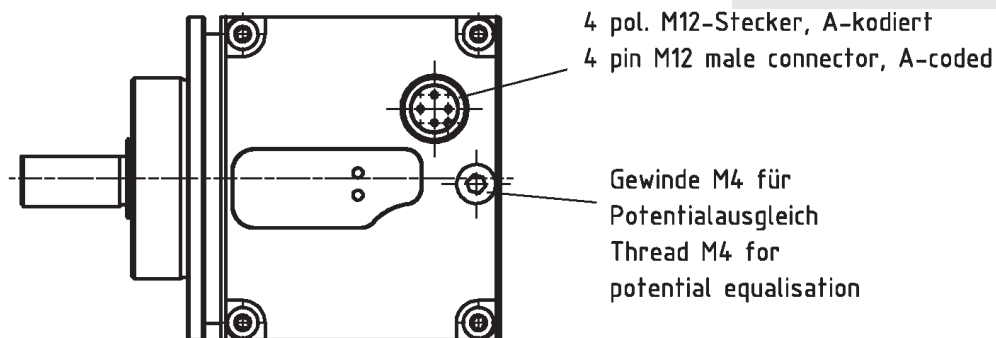
Änderungen vorbehalten.

Absolute-Encoder CEV582 - IO-Link

Order No.: K-CEV58_2-IOL-1

20.06.2026

010102058202010201



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

Änderungen vorbehalten.