

CEV58M*8192/4096 EPN (NEU:CEV582M-10337)

Material-Foto-TEST



Order-#: CEV58M-00337

7.10.2021 / 010102005802030201

Advantages

- New series available

Discontd.w/replacemt

Discontinued, available as spare, do not use for new applications, ask for replacement type

Technical data for CEV58M-00337

NO.OF STEPS/REV	8.192,000
NO. OF REVOLUTIONS	4.096,000
INTERFACE	PROFINET IO
SUPPLY VOLTAGE	11-27V
CONNECTOR TYPE	1X4P.M12-CONNECTOR
	2X4P.M12-CONN., D-COD(FEMALE)
CONNECTOR-POSITION	RADIAL
MATING PLUG	NO
FLANGE TYPE	ZB50/D65
SHAFT TYPE	10FL/19,5
TEMPERATURE RANGE	0-60°C
PROTECTION Class	IP65
OPTIONS ENC	CONFORMANCE CLASS C
	PN SPEC. 2.2
PINOUT NO.	TR-ECE-TI-DGB-0186
DRAWING NO.	04-CEV58M-M0214
VERSIONNO	000
FIRMWARE NO	437742

Subject to change.

CEV58M*8192/4096 EPN (NEU:CEV582M-10337)

Order-#: CEV58M-00337

7.10.2021 / 010102005802030201

Technical data for CEV58M-00337 continuation

DOCUMENTATION NO	DOKUMENTE
AL:	N
ECCN:	N

General data for K-CEV58-PN-1

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	11/27 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
PROFINET IO - Interface	
- PROFINET IO - Device	IEC 61158, IEC 61784-1
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- PROFINET-Specification	V2.2
- Conformance Class	B, C
- Real-Time-Classes	Class 1, 2 (RT), Class 3 (IRT)
Transmission rate	
- Specific value	100 MBit/s
Cycle time	>= 1000 µs (IRT/RT)
Speed output	
- Features	Option
- Cycle time	1 new value / 2 ms
Parameter/Function, changeable	Addressing
	Resolution
	Adjustment - Parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable

Subject to change.

CEV58M*8192/4096 EPN (NEU:CEV582M-10337)

Order-#: CEV58M-00337

7.10.2021 / 010102005802030201

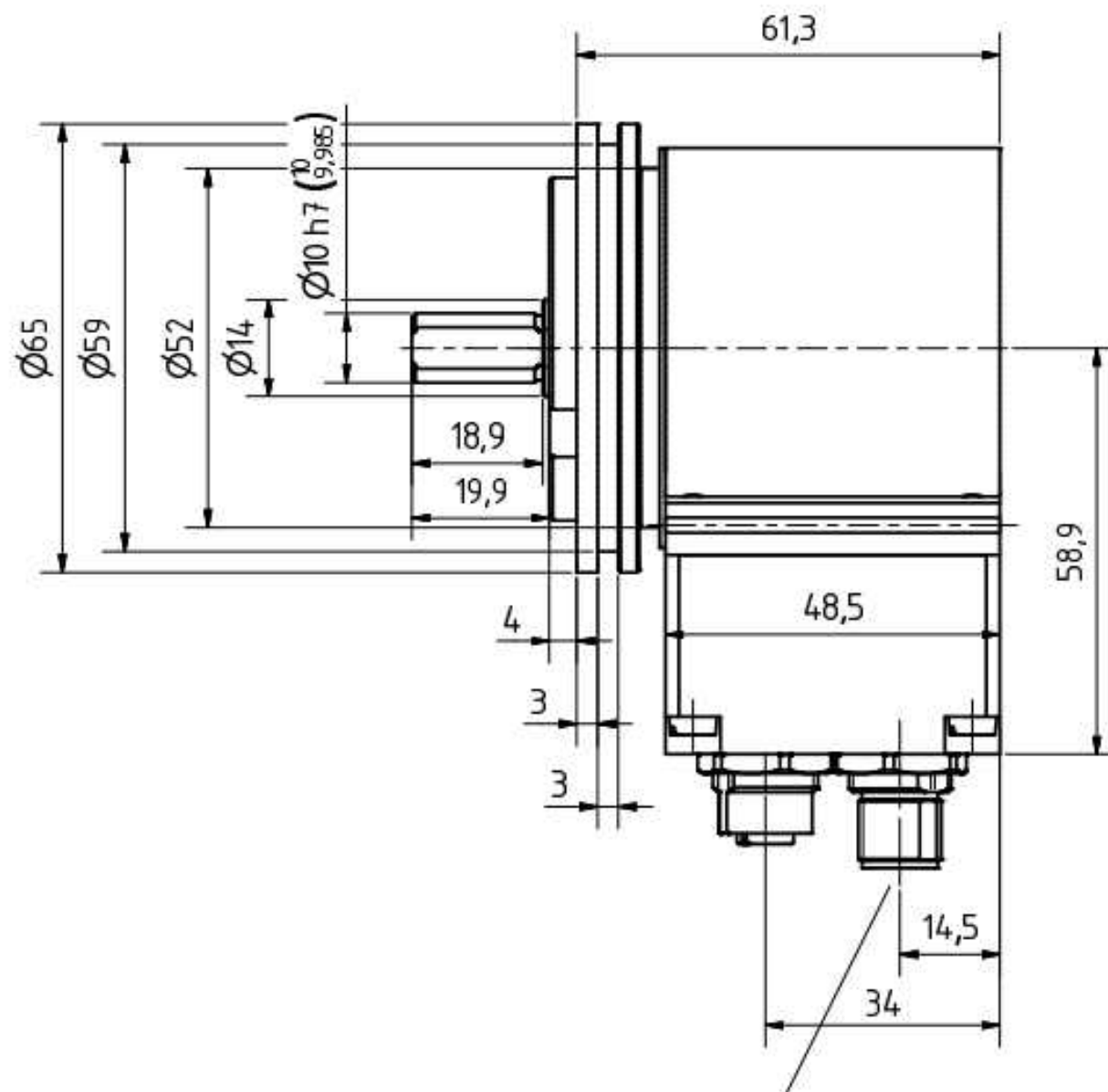
General data for K-CEV58-PN-1 continuation

Programming - Tool	Fieldbus-Device
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 ["]	3/8
Angular acceleration	$\leq 10E+4$ rad/s ²
Moment of inertia, typically	2.5E-6 kg m ²
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3 ... 0.5 kg

Environmental data

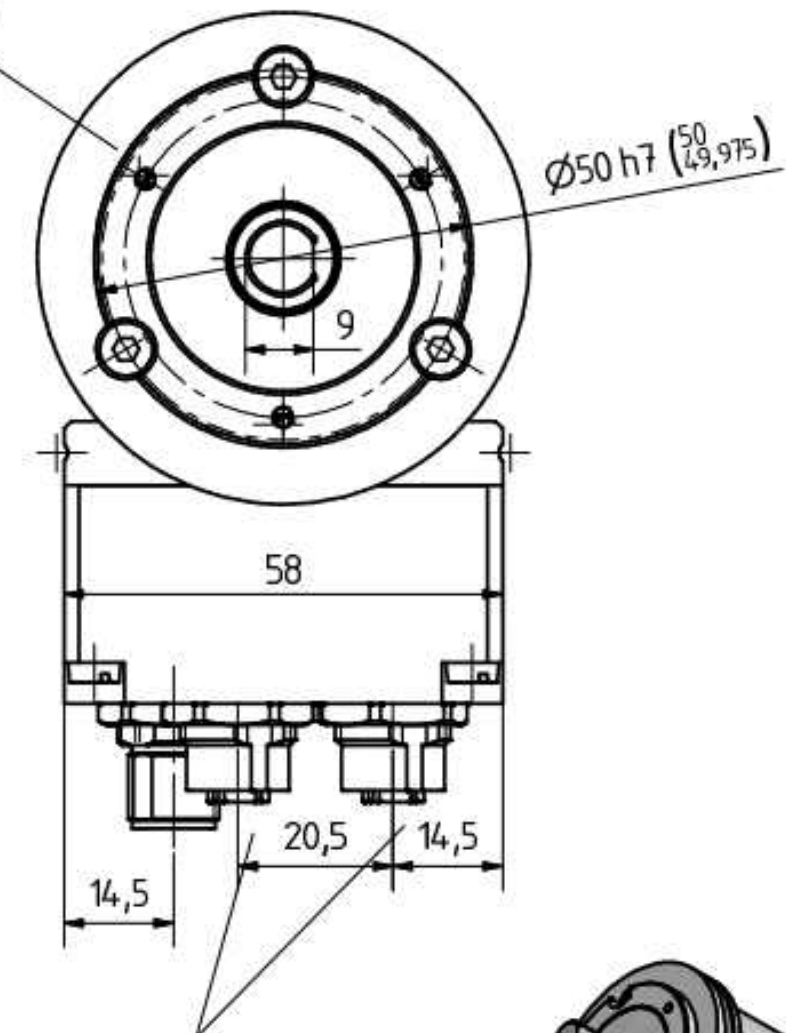
Vibration	
- Specific value	≤ 100 m/s ²
- Sine	50 ... 2000 Hz
Shock	
- Specific value	≤ 1000 m/s ²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	0 ... +60 °C
- Optional	-20 ... +70 °C;
Storage temperature, dry	-30 ... +80 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65

Subject to change.

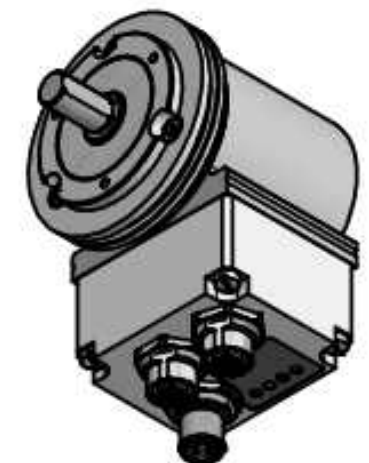


4pol. M12-Stecker (Spannungsversorgung)
4pin. M12-male-connector (Supply voltage)

3xM3, 10tief/deep
TKØ42±0.2, (3x120°)



2x4pol. M12-Stecker, d-codiert (Buchse)
2x4pin. M12-connector, d-coded (female)



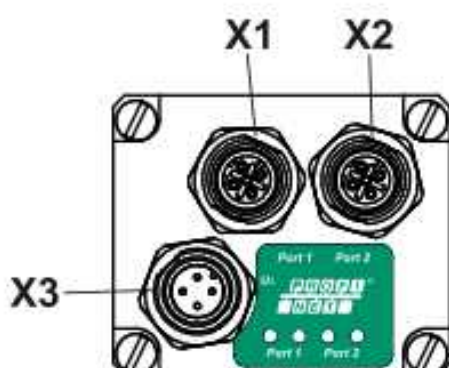
Mechanische Kenndaten für Encoder mit Vollwelle	Mechanical data for shaft encoder	
mechanisch zulässige Drehzahl	Maximum rotational speed	12.000 min ⁻¹
zul. Belastung der Wellenlagerung	Maximum load on shaft	20N radial / 10N axial am Wellenende (end of shaft)
min. Lagerteil Lebensdauer (Drehzahl 6.000min ⁻¹ , Temperatur 60°C)	Min. lifetime on bearings (speed 6.000min ⁻¹ , temperature 60°C)	min. 3,9 x 10 ¹⁰ Umdr. (revol.)
Masse (ohne Kabel)	Weight (without cable)	ca. 0,3...0,5kg
zulässige Winkelbeschleunigung	Maximum angular acceleration	max. 10 ⁴ rad/s ²
Trägheitsmoment	Momentum of inertia	ca. 2,5 x 10 ⁻⁵ kgm ²
Anlaufdrehmoment bei 20°C	Startup momentum at 20°C	ca. 2Ncm
Schutzart DIN 40050 / ICE 529	Protection ratings DIN 40050 / ICE 529	IP65
Zul. Vibrationsbelastung nach DIN IEC 68-2-6 (Sinus f= 50Hz...2kHz)	Vibration DIN IEC 68-2-6 (sinusoidal f = 50Hz...2kHz)	max. 100m/s ² (10g)
Zul. Stossbelastung nach DIN IEC 68-2-27 (Halbsinus, Dauer t=11ms)	Shock DIN IEC 68-2-27 (half sinusoidal, time t=11ms)	max. 1.000m/s ² (100g)

Artikel-Nr. und Steckerbelegung: siehe Datenblatt
Article-No. and pin connections: see data sheet

				TR-Electronic GmbH Eglishalde 6 D-78647 Trossingen phone +49 7425 228.0 www.tr-electronic.de		Maßstab DIN A3		Projekt-Nr.:				
						Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only for this type valid						
					Datum	Name		CEV-58-M, 50er Zentr.				
				Erstellt	21.07.10	NEMECZ						
				Bearb.	12.10.10	FLAIG						
				Gepr.								
				Norm								
				www.tr-electronic.de DXF+Info: info@tr-electronic.de						Zeichnungs-NR../Drawing-No.:		Blatt
2	Bushaube geändert	12.10.10	Flaig							04-CEV58M-M0214		1
1	Überarbeitung	05.08.10	Flaig									1 Bl
Zust.	Änderungen	Datum	Name									

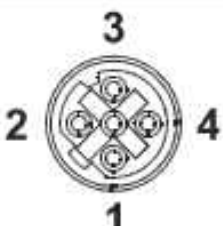
Steckerbelegung / Pin Assignment

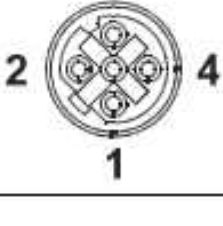
Cxx-58 / CxH-80 / CxH-110 PROFINET Interface (3 x M12)

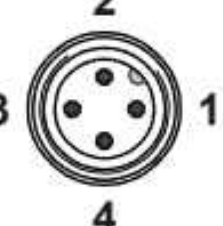


Die Schirmung ist großflächig auf das Gegensteckergehäuse aufzulegen!

The shielding is to be connected with large surface on the mating connector housing!

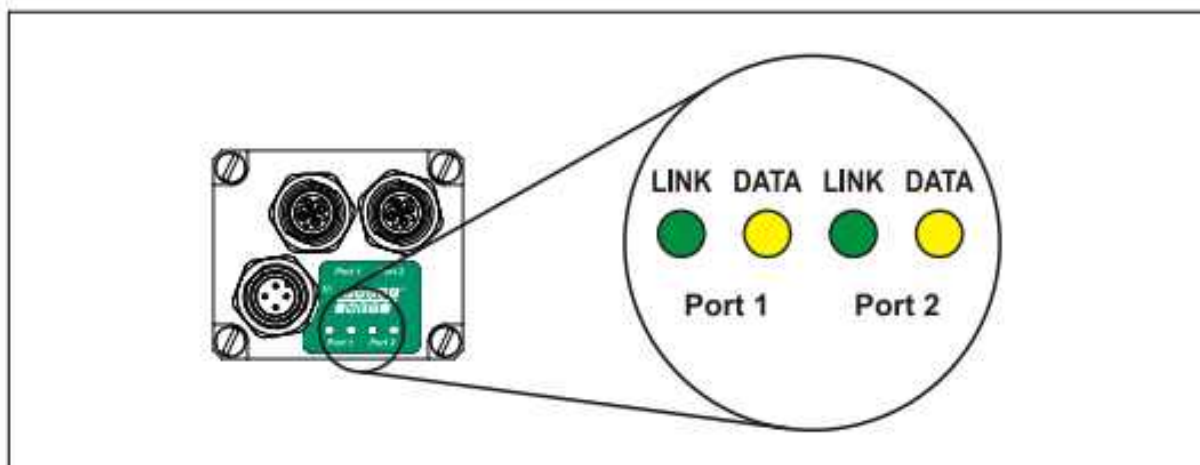
X1	PORT 1 Flanschdose / Female socket (M12x1-4 pol. D-coded)			Steckseite Mating Face 
1	TxD+	Sendedaten +	Transmission Data +	
2	RxD+	Empfangsdaten +	Receive Data +	
3	TxD-	Sendedaten -	Transmission Data -	
4	RxD-	Empfangsdaten -	Receive Data -	

X2	PORT 2 Flanschdose / Female socket (M12x1-4 pol. D-coded)			Steckseite Mating Face 
1	TxD+	Sendedaten +	Transmission Data +	
2	RxD+	Empfangsdaten +	Receive Data +	
3	TxD-	Sendedaten -	Transmission Data -	
4	RxD-	Empfangsdaten -	Receive Data -	

X3	Flanschstecker / Male socket (M12x1-4 pol. A-coded)		Steckseite Mating Face 
1	11 - 27 V DC	Encoder-Versorgungsspannung / Encoder-Supply Voltage	
2	-	darf nicht beschaltet werden! / must not be connected!	
3	0 V	Encoder-Versorgungsspannung / Encoder-Supply Voltage	
4	-	darf nicht beschaltet werden! / must not be connected!	

Steckerbelegung / Pin Assignment

Diagnose-LEDs / Diagnosis-LEDs (2 x LED grün / green / 2 x LED gelb / yellow)



Link-LEDs (grün / green)

	Physikalische Verbindung vorhanden / <i>Physical connection available</i>
	Keine physikalische Verbindung vorhanden / <i>No physical connection available</i>

Data-LEDs (gelb / yellow)

	Kein Datenaustausch / <i>No data transfer</i>
 oder 	Datenaustausch / <i>data transfer</i>

Blinkmodus durch Projektier-Tool / Flashing mode due to development tool

	2 Hz, grüne LEDs <i>2 Hz, green LEDs</i>
---	---