

CEV362M*8192/4096 CO 33ZB8GL

Order-#: CEV362M-00010
16.8.2023 / 0101020036



Stock photo

CANopen



Advantages

- _ Free PDO mapping
- _ Layer Setting Services (LSS)
- _ Parameterizable gear unit
- _ Rugged mechanics
- _ Very small construction

Under development

Specification is preliminary and subjected to change

Technical data for CEV362M-00010

NO.OF STEPS/REV	8.192,000
NO. OF REVOLUTIONS	4.096,000
INTERFACE	CAN/OPEN
SUPPLY VOLTAGE	10-30V
CONNECTOR TYPE	1x M12 05-PIN A-CODE MALE
CONNECTOR-POSITION	AXIAL
FLANGE TYPE	ZB33
SHAFT EXECUTION	(V) Solid shaft
SHAFT TYPE	D08 L10 GLATT
OPERATING TEMPERATURE	-20°C... +75°C
PROTECTION Class	IP65
OPTIONS ENC	CANOPEN BAUDRATE: 500K CANOPEN LSS: AKTIV CANOPEN NODE ID: 1
PINOUT NO.	TR-ECE-TI-DGB-0405

Subject to change.

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

CEV362M*8192/4096 CO 33ZB8GL

Order-#: CEV362M-00010
16.8.2023 / 0101020036

Technical data for CEV362M-00010 continuation

DRAWING NO. 04-CEV362M-M0010

General data for K-CEV36_2-CO-1

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	10/30 VDC
Nominal current, typically	
- Specific value	30 mA
- Condition	unloaded
Supply	
- In case of UL / CSA approval	according to NEC Class 2
Device design	
- Type	Single-/Multi-Turn
Total resolution	Single-Turn <= 18 Bit
	Multi-Turn <= 36 Bit
Number of steps per revolution	<= 262144
Number of revolutions	Single-Turn = 1
	Multi-Turn <= 256000
Output capacity	<= 32 Bit
CANopen - Interface	
- CANopen	EN 50325-4 (CiA DS301)
- Bus connection	ISO 11898-1, ISO 11898-2
- CAN Specification 2.0 A	11-Bit Identifier
- Device-Profile for Encoder	CiA DS406
- Layer Setting Services, LSS	CiA DS305
Transmission rate	
- Specific value	10, 20, 50, 100, 125, 250, 500
- Specific value	800, 1000 kbit/s
- Adjustability	via LSS service
Parameter/Function, changeable	Resolution
	Operating range
	Download, EDS file
	Limit switch
	Firmware update
	Node-ID
	Preset parameter
	Scaling parameter

Subject to change.

CEV362M*8192/4096 CO 33ZB8GL

Order-#: CEV362M-00010
16.8.2023 / 0101020036

General data for K-CEV36_2-CO-1 continuation

	Transmission rate
	Counting direction
	Gear function
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Maximum Speed, mechanically	<= 15000 1/min
Shaft load, axial/radial	<= 40 N, <= 80 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 + 8 mm
Shaft type	
- Shaft diameter [mm]	6
- Shaft diameter [mm]	8
- Shaft diameter [mm]	10
Angular acceleration	<= 10E+4 rad/s ²
Moment of inertia, typically	0.5E-6 kg m ²
Start-up torque, 20 °C	1 Ncm
Mass, typically	0.1...0.3 kg

Environmental data

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	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

Subject to change.

CEV362M*8192/4096 CO 33ZB8GL

Order-#: CEV362M-00010
16.8.2023 / 0101020036

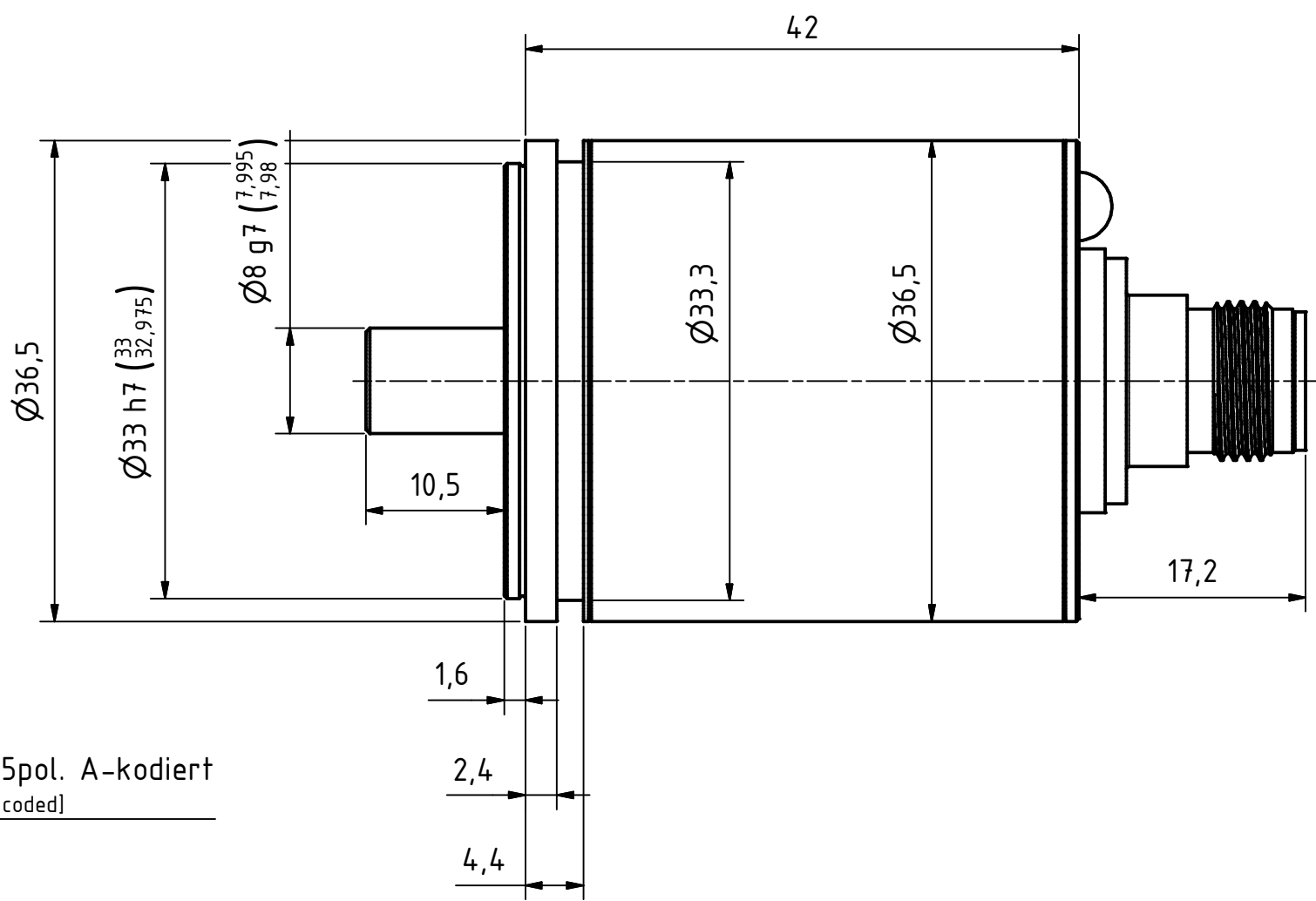
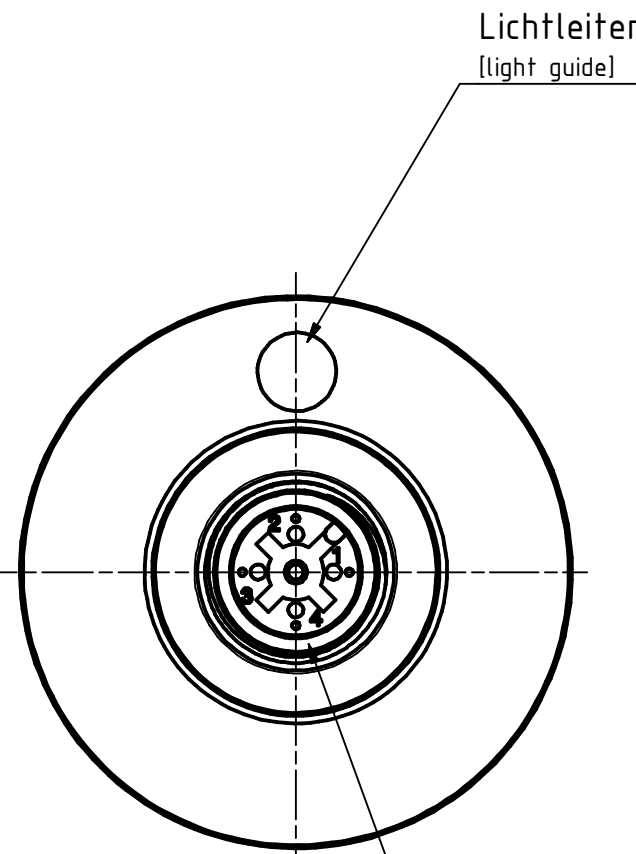
Environmental data continuation

Relative humidity	98 %, non condensing
Protection class - Standard	IP65

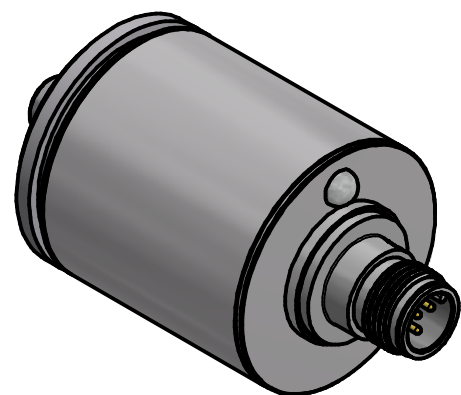
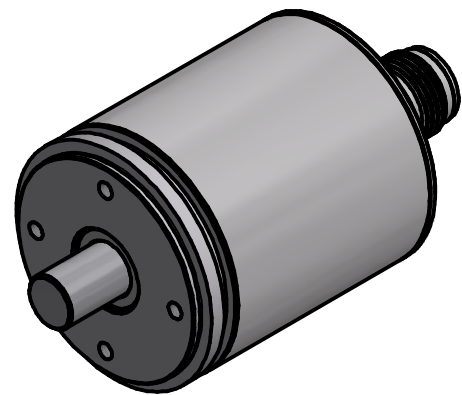
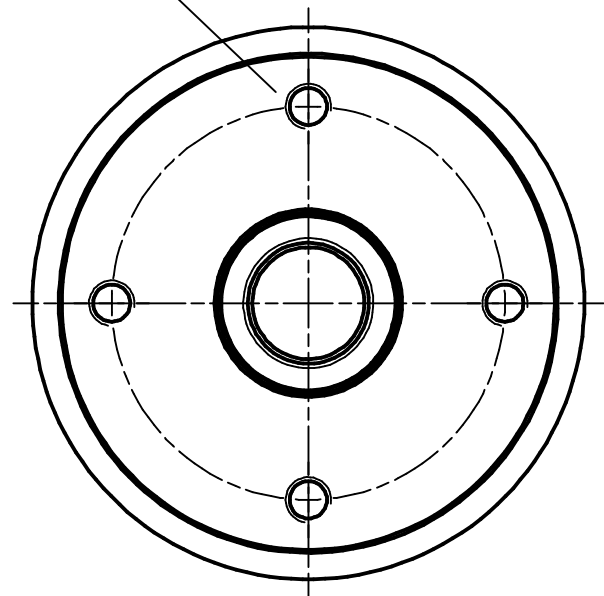
Subject to change.



Alle nicht tolerierten Maße sind Richtwerte. [All non-tolerated dimensions are guide values.]
 Technische Änderungen grundsätzlich vorbehalten. [We reserve the right to make technical changes.]



4x M3 ∇6
 TK Ø26±0.1 (4x90°)



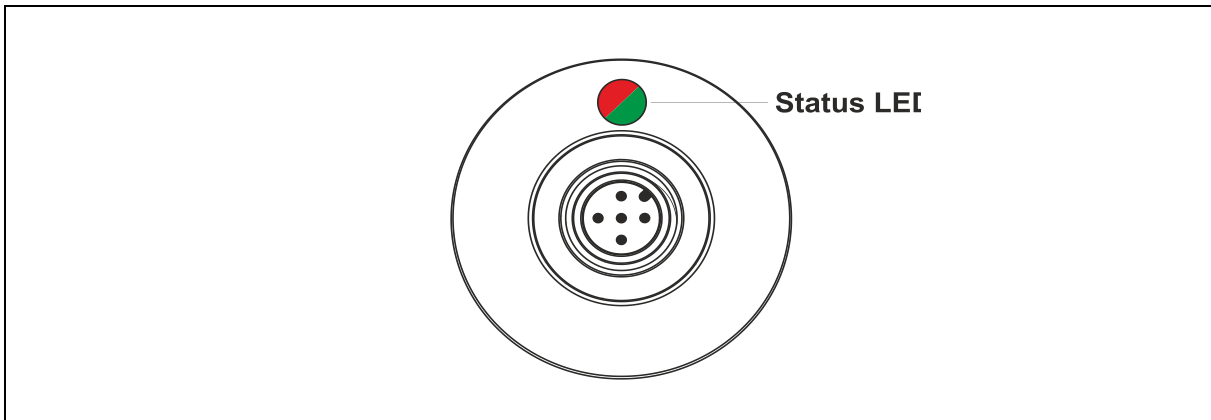
Isometrie (1 : 1)

Tolerierung [Tolerancing] ISO 8015		alle Maße in mm [all dimensions in mm]		Maßstab [Scale] 2 : 1		DIN A3																
E-Mail: info@tr-electronic.de Support: http://tr-e.info/01		CAD: STEP		Artikel-Nr. und Steckerbelegung: siehe Datenblatt [Article-No. and pin assignment: see data sheet]																		
				Bezeichnung [Designation]: CEV-362-M, 33er Zentr.																		
				Zeichnung-Nr. [Drawing-No.]: 04-CEV362M-M0010																		
				Dok.Art. IDW Teil-Dok. 000 Dok.Vs. 00 1/1 Bl.																		
Zust.	Änderungen	Datum	Name	TR Electronic GmbH Eglshalde 6 D-78647 Trossingen Tel. +49 7425 228-0 www.tr-electronic.de																		
				<table border="1"> <thead> <tr> <th></th> <th>Datum</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>Erst.</td> <td>10.07.2023</td> <td>FLAIG</td> </tr> <tr> <td>Bearb.</td> <td>10.07.2023</td> <td>FLAIG</td> </tr> <tr> <td>Gepr.</td> <td>11.07.2023</td> <td>NEMECZ</td> </tr> <tr> <td>Norm</td> <td></td> <td></td> </tr> </tbody> </table>			Datum	Name	Erst.	10.07.2023	FLAIG	Bearb.	10.07.2023	FLAIG	Gepr.	11.07.2023	NEMECZ	Norm				
	Datum	Name																				
Erst.	10.07.2023	FLAIG																				
Bearb.	10.07.2023	FLAIG																				
Gepr.	11.07.2023	NEMECZ																				
Norm																						

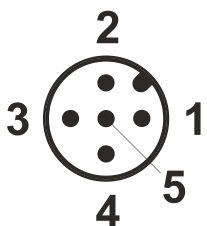


Steckerbelegung / Pin assignment

Baureihe / Series 362 CANopen



Flanschstecker / Male socket (M12 - 5 pin. A-coded)

		Steckseite / Mating Face
1	CAN_Shield	
2	US-Versorgung / Supply, 10-30 V DC	
3	0V-Versorgung / Supply	
4	CAN_H	
5	CAN_L	

Allgemeine Hinweise / General note



Der Schirm ist großflächig auf die Kabelverschraubung des Gegensteckers aufzulegen. /
The shield has to be connected with large surface to the cable screw gland of the mating connector.

Wenn das Mess-System die letzte Station im CANopen-Segment ist, muss der weiterführende CAN-Bus mit einem 120 Ω Abschlusswiderstand versehen werden um den nachfolgenden Bus abzuschalten.

Für den Betrieb sind nur paarweise verdrehte und geschirmte Bus- bzw. Anschlusskabel zu verwenden.

If the measuring system is the last station in the CANopen segment, the continuing CAN bus must be provided with a 120 Ω terminating resistor to switch off the following bus.

For the operation shielded twisted-pair bus- or connection-cables must be used.



Betriebsanleitung beachten! - Observe User Manual!



Steckerbelegung / Pin assignment

Status LED

LED Status	Beschreibung / Description
ON	Permanent AN / <i>Constantly ON</i>
Blinking	Gleiche AN- und AUS-Zeit mit einer Frequenz von 2,5 Hz: AN = 200 ms, AUS = 200 ms / <i>Equal ON and OFF times with a frequency of 2.5 Hz: ON = 200 ms, OFF = 200 ms</i>
Single flash	Einmaliges kurzes Aufblinken, 200 ms AN, gefolgt von einer langen AUS-ZEIT, 1000 ms / <i>One short flash, 200 ms ON, followed by a long OFF phase, 1000 ms</i>
Double flash	Zweimaliges kurzes Aufblinken, jeweils 200 ms AN und AUS / <i>Double short blinking, each 200 ms ON and OFF</i>
Flickering	Gleiche AN- und AUS-Zeit mit einer Frequenz von 10 Hz: AN = 50 ms, AUS = 50 ms / <i>Equal ON and OFF times with a frequency of 10 Hz: ON = 50 ms, OFF = 50 ms</i>

Farbe / Color	LED Status	Beschreibung / Description
grün / green	ON	Gerät befindet sich im <i>OPERATIONAL</i> Zustand / <i>Device is ready for operation and is in state OPERATIONAL-Mode</i>
	Blinking	Gerät befindet sich im <i>PRE-OPERATIONAL</i> Zustand / <i>Device is in state PRE-OPERATIONAL-Mode</i>
	Single flash	Gerät befindet sich im <i>STOPPED</i> Zustand / <i>CAN communication stopped, the device is in state STOPPED-Mode</i>
	Flickering	LSS-Configuration aktiv / <i>LSS configuration active</i>
rot / red	ON	keine Gegenstelle erkannt (Bus OFF) / <i>Bus offline, no bus connection</i>
	Single flash	zu viele Fehler im CAN-Controller / <i>to much errors over the CAN-controller</i>
	Double flash	Node Guarding- oder Heartbeat-Fehler / <i>Node Guarding or Heartbeat error</i>
	Flickering	Mess-System defekt / <i>Measuring system defective</i>



Betriebsanleitung beachten! - Observe User Manual!



Änderungen vorbehalten / Subject to change