

# CMV582M\*4096/4096 IOL 36ZB 10FL

Order No.:CMV582M-00028

[Click Here](#) for a Quote - [customer@tr-electronic.com](mailto:customer@tr-electronic.com)

## Advantages

- Fractions for gear factor
- Preset "on the fly"
- Salt-resistant



Stock photo



## Technical data for CMV582M-00028

NO.OF STEPS/REV	4.096,000
NO. OF REVOLUTIONS	4.096,000
INTERFACE	IO-LINK
SUPPLY VOLTAGE	18-30V
CONNECTOR TYPE	1X4P.M12-CONNECTOR
CONNECTOR-POSITION	RADIAL
MATING PLUG	NO
FLANGE TYPE	ZB36 3XM3+3XM4
SHAFT TYPE	10FL/19,5
TEMPERATURE RANGE	-20+75°C
PROTECTION Class	IP65
PINOUT NO.	TR-ECE-TI-DGB-0319
DRAWING NO.	04-CMV582M-M0020
DOCUMENTATION NO	DOKUMENTE
EL:	AL:N
ECCN:	ECCN:N
MTTFd [y] (T=45°C, DC=0) >=	200
UL-APPROVALS	USA+CANADA

Subject to change.

## CMV582M\*4096/4096 IOL 36ZB 10FL

Order-#: CMV582M-00028  
27.4.2020 / 010102058201030201

### General data for K-CMV58\_2-IOL-1

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	18/30 VDC
Nominal current, typically	
- Specific value	40 mA
- Condition	unloaded
Supply	
- In case of UL / CSA approval	according to NEC Class 2
Device design	
- Type	Single-/Multi-Turn
Total resolution	$\leq 31$ Bit
Number of steps per revolution	$\leq 8192$
Number of revolutions	$\leq 256000$
Accuracy	$\pm 0.5^\circ$
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	$\geq 1$ ms
Transmission rate	
- Specific value	COM 3: 230.4 kbit/s
Parameter/Function, changeable	Preset parameter
	Adjustment - Parameter
	Scaling parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Maximum Speed, mechanically	$\leq 12000$ 1/min
Shaft load, axial/radial	$\leq 50$ N, $\leq 100$ N
Bearing life time	$\geq 3.9E+10$ revolutions
Bearing life time - Parameter	
- Speed	6000 1/min

Subject to change.

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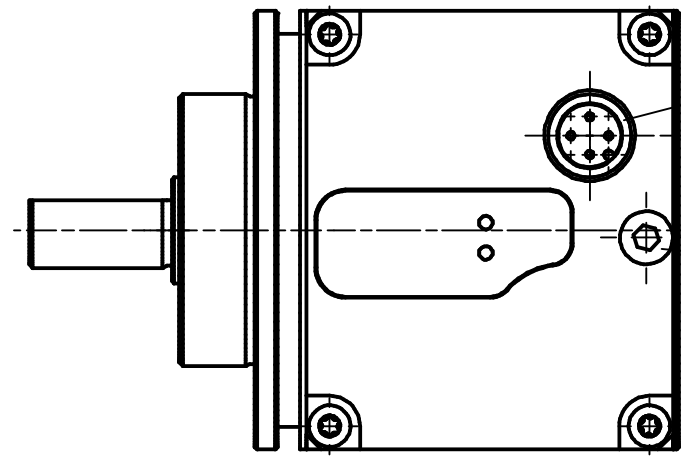
## General data for K-CMV58\_2-IOL-1 continuation

- 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	$\leq 10E+4 \text{ rad/s}^2$
Moment of inertia, typically	1.3E-6 kg m <sup>2</sup>
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3 kg

## Environmental data

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
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

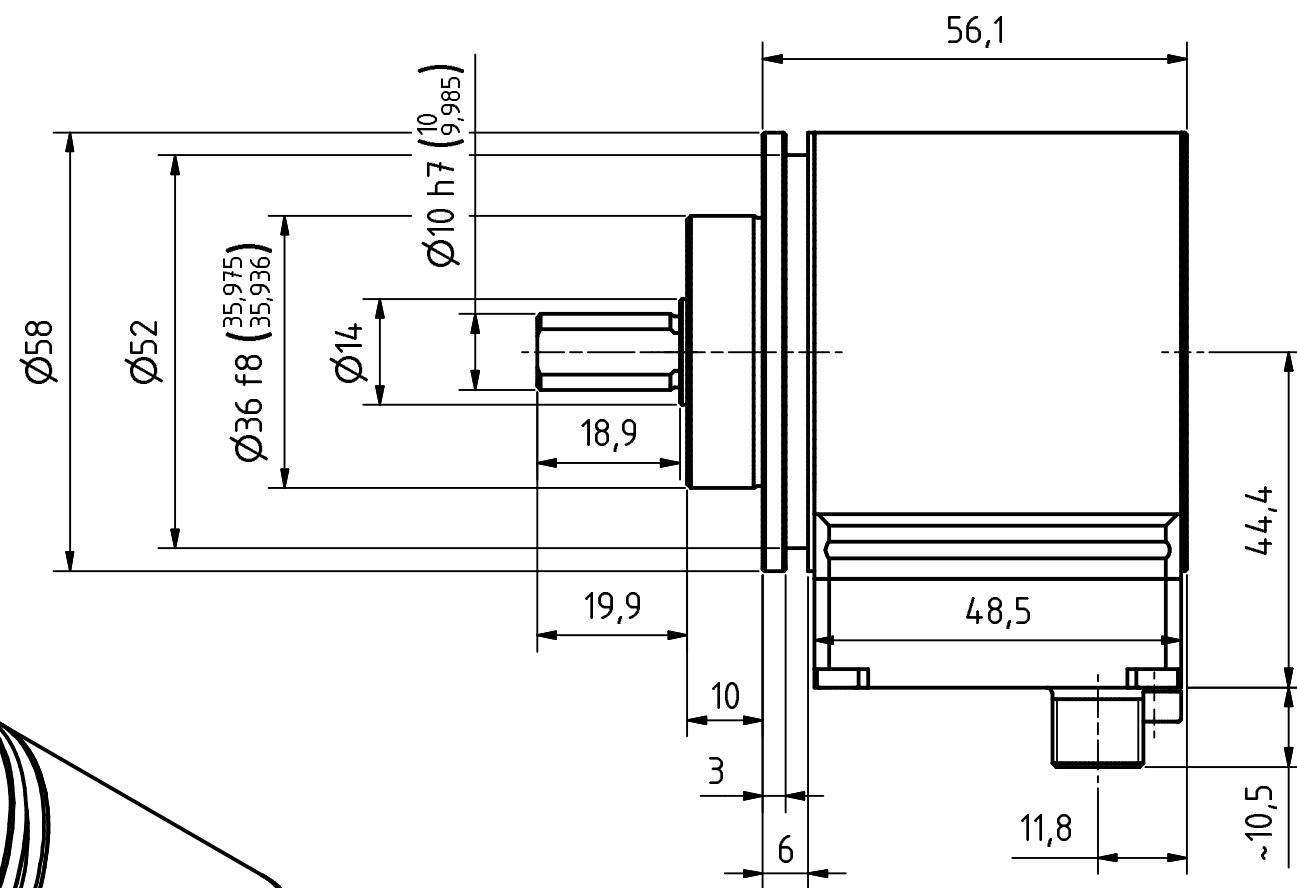
Subject to change.



4pol. M12-Stecker, a-codiert  
4pin. M12-male-connector, a-coded

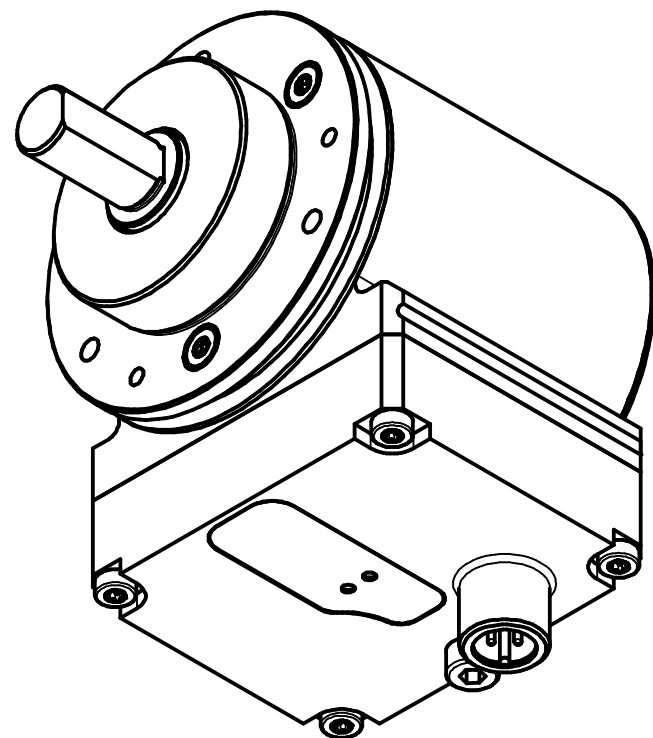
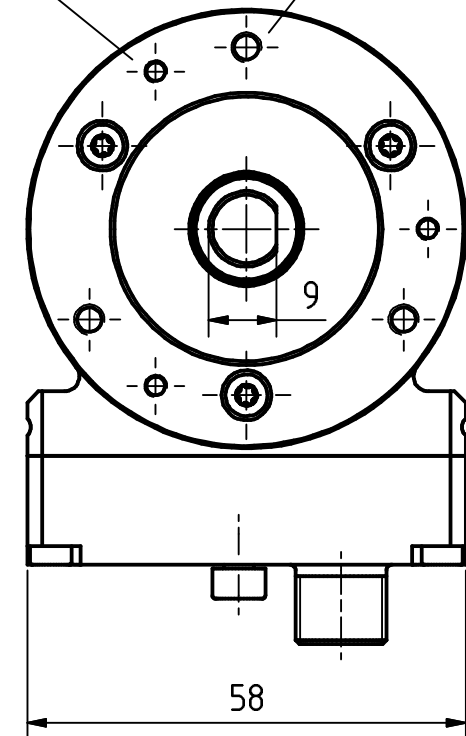
Gewinde M4 für  
Potentialausgleich  
thread m4 for  
potential equalisation

12,5




3xM3, 3tief/deep  
TK $\varnothing$ 48 $\pm$ 0.2, (3x120°)

3xM4, 3tief/deep  
TK $\varnothing$ 48 $\pm$ 0.2, (3x120°)



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

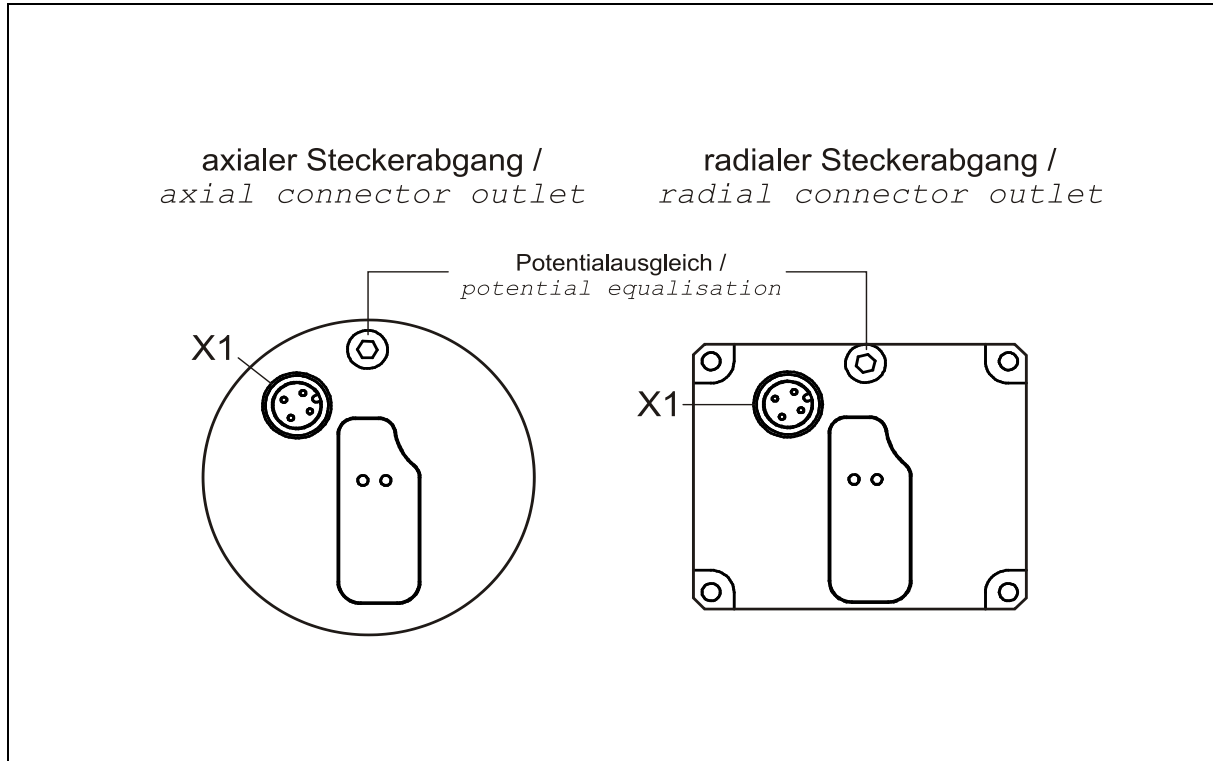
 TR-Electronic GmbH Eglisshalde 6 D-78647 Trossingen phone +49 7425 228.0 www.tr-electronic.de	Maßstab 1:1 DIN A3		Projekt-Nr.:
	Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only for this type valid		
	Datum	Name	
	Erstellt	16.02.2018	FLAIG
	Bearb.	16.02.2018	FLAIG
	Gepr.	16.02.2018	NEMECZ
	Norm		
www.tr-electronic.de DXF+Info: info@tr-electronic.de			Zeichnungs-NR./Drawing-No.:
Zustf.	Änderungen	Datum	Name
			Blatt 1 1 BU
04-CMV582M-M0020			

CMV-582-M, 36er Zentr.

04-CMV582M-M0020

## Steckerbelegung / Pin assignment

### Series 582 / 802 / 1102 IO-Link (PORT-Class A)



Die Schirmung ist großflächig auf das Gegensteckergehäuse aufzulegen! /  
 The shielding is to be connected with large surface on the mating connector housing!

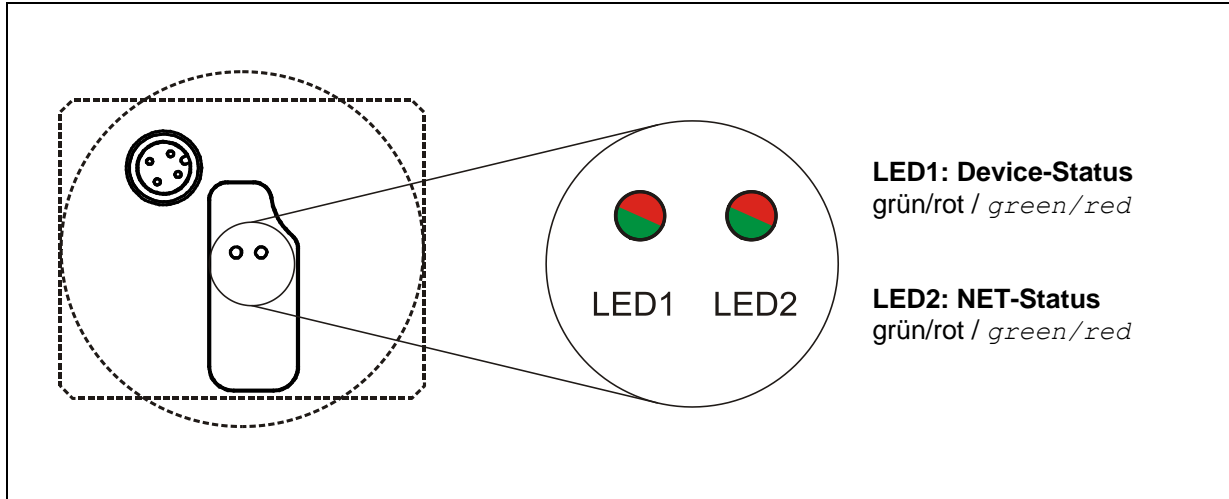
X1		Flanschstecker / Male socket (M12 - 4 pin. A-coded)	
1	L+	Versorgungsspannung+ 18 – 30 V DC / Supply Voltage+ 18 - 30 V DC	<p>Steckseite / Mating Face</p>
2	DI/DO	gerätespezifische Funktionen (High-Pegel) / device specific functions (high level)	
3	L-	Versorgungsspannung- 0 V / Supply Voltage- 0 V	
4	C / Q	SDCI Kommunikationssignal (IO-Link – Signal) / SDCI communication signal (IO-Link – Signal)	

Betriebsanleitung beachten! - Observe User Manual!

Änderungen vorbehalten / Subject to change

## Steckerbelegung / Pin assignment

### LEDs



#### LED1: Device-Status

Farbe / <i>Color</i>	Status	Beschreibung / <i>Description</i>
-	OFF	Spannungsversorgung fehlt, Hardware defekt / <i>Power supply missing, hardware defective</i>
rot / <i>red</i>	ON	- Fehlerhafte Position / <i>Incorrect position</i> - Speicherfehler / <i>Memory error</i> - Presetwert außerhalb Bereich / <i>Preset value out of range</i>
rot / <i>red</i>	BLINKING 500 ms	Mess-System defekt / <i>Measuring system defective</i>
grün / <i>green</i>	ON	Normalbetrieb, Datenaustausch / <i>Normal mode, data exchange</i>

#### LED2: NET-Status

Farbe / <i>Color</i>	Status	Beschreibung / <i>Description</i>
-	OFF	Spannungsversorgung fehlt, Hardware defekt / <i>Power supply missing, hardware defective</i>
rot / <i>red</i>	ON	- Keine Verbindung zum IO-Link - Master / <i>No connection to the IO-Link master</i> - Kein Datenaustausch / <i>No data exchange</i>
grün / <i>green</i>	100ms OFF 900ms ON	SDCI-Kommunikation aktiv / <i>SDCI Communication aktive</i>



Betriebsanleitung beachten! - Observe User Manual!



Änderungen vorbehalten / Subject to change