Absolute-Encoder CEV58 - EPN

Ref.: K-CEV58-PN-2
11.03.2021
010102005802030201

Advantages

_ New series available

General Data

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

Subject to change.

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

Absolute-Encoder CEV58 - EPN

Ref.: K-CEV58-PN-2
11.03.2021
010102005802030201

General Data continuation

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
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
- 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	<= 10E+4 rad/s²
Moment of inertia, typically	2.5E-6 kg m²
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3…0.5 kg

Environmental conditions

Vibration - Specific value	 <= 100 m/s²
- Sine	50…2000 Hz
Shock - Specific value	 <= 1000 m/s²

Subject to change.

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

Ref.: K-CEV58-PN-2
11.03.2021
010102005802030201

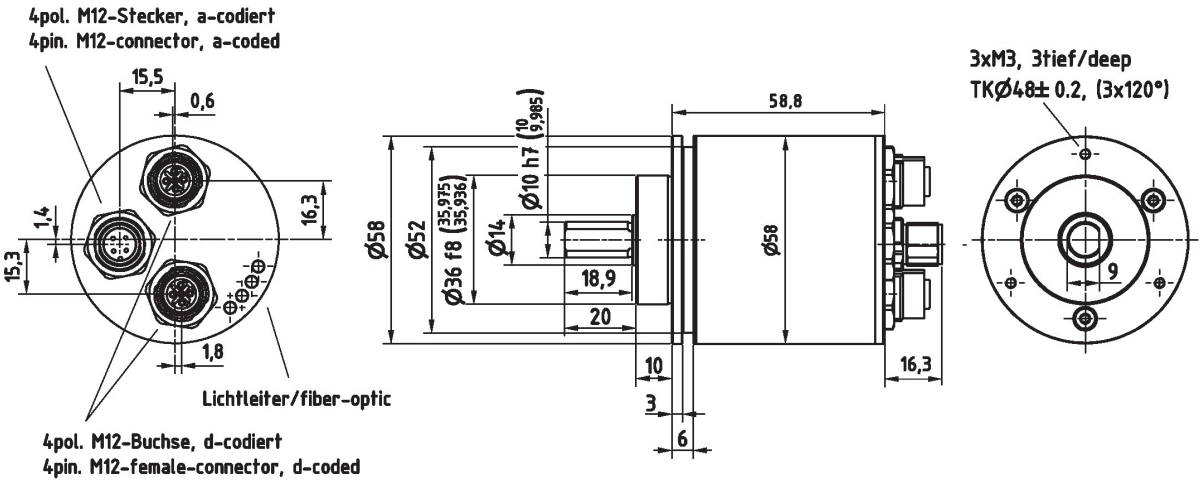
Environmental conditions continuation

- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature - Standard	-20…+70 °C
Storage temperature, dry	-30…+80 °C
Relative humidity	98 %, non condensing
Protection class - Standard	IP65

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

Ref.: K-CEV58-PN-2
11.03.2021
010102005802030201

Dimensional drawing



Subject to change.

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