

Absolute-Encoder CEK58 - EPN



Ref.: K-CEK58-PN-2

18.11.2013

010102005802030204

Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ Modular mechanical design
- _ Modular product line
- _ Short lead times

General Data

Supply	
- Supply voltage	11...27 VDC
Current consumption no load	<= 350 mA
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)
Parameter/Function, changeable	Resolution
	Adjustment - Parameter
	Counting direction
Type of parametrization	programmable

Subject to change.

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

Absolute-Encoder CEK58 - EPN

Ref.: K-CEK58-PN-2

18.11.2013

010102005802030204

General Data continuation

Prgramming - Tool	Fieldbus-Device
Maximum Speed, mechanically	≤ 12000 1/min
Shaft load, axial/radial	radial coupling forces
Bearing life time	$\geq 3.9E+10$ revolutions
Bearing life time - Parameter - Speed	6000 1/min
- Operating temperature	60 °C
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 conditions

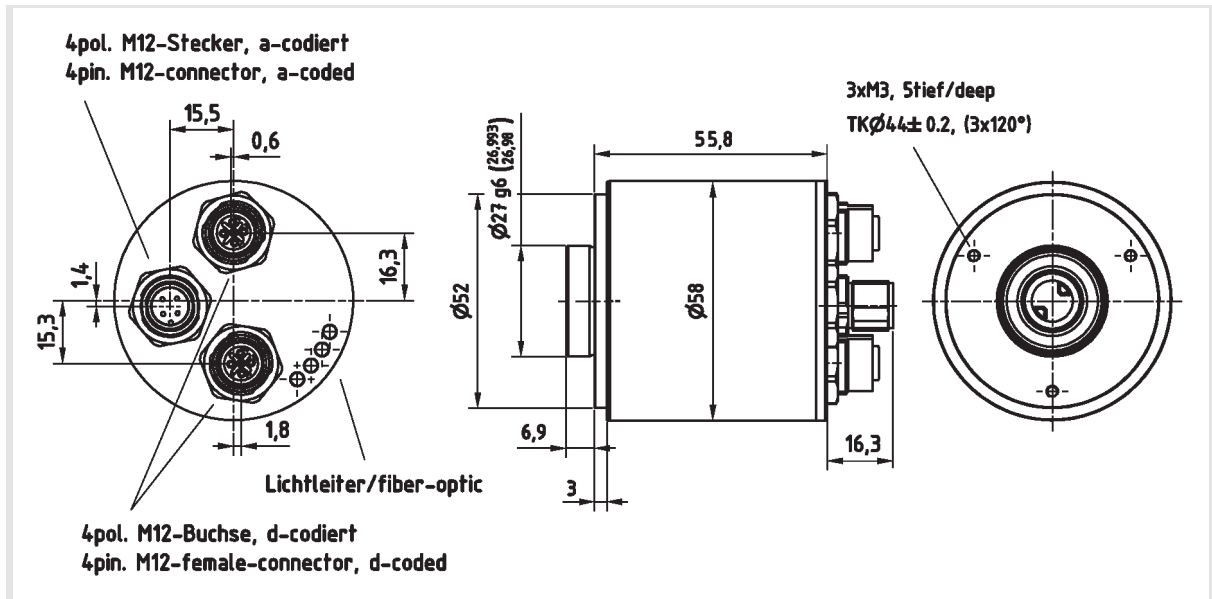
Vibration	
- Specific value	≤ 100 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	≤ 1000 m/s ²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	-20...+70 °C
Storage temperature, dry	-30...+80 °C
Relative humidity	98 %, non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

Subject to change.

Absolute-Encoder CEK58 - EPN

Ref.: K-CEK58-PN-2
 18.11.2013
 010102005802030204

Dimensional drawing



Subject to change.