

# Absolute-Encoder CEK58 - ES3

Ref.: K-CEK58-ES3-1

18.11.2013

010102005802030204

## Advantages

- \_ Further interfaces available
- \_ Modular mechanical design
- \_ Modular product line



## General Data

Supply	
- Supply voltage	11...27 VDC
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 25 Bit
Number of steps per revolution	<= 8192
Number of revolutions	<= 4096
SERCOS III - Interface	
- SERCOS III	IEC 61784-2, IEC 61158
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Device profile	Encoder Profile
Transmission rate	
- Specific value	100 MBit/s
Parameter/Function, changeable	Zero adustment
	Counting direction
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
Maximum Speed, mechanically	<= 12000 1/min
Shaft load, axial/radial	radial coupling forces
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	6000 1/min

Subject to change.

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### General Data continuation

- Operating temperature	60 °C
Angular acceleration	$\leq 10E+4 \text{ rad/s}^2$
Moment of inertia, typically	$2.5E-6 \text{ kg m}^2$
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3...0.5 kg

### Environmental conditions

Vibration	
- Specific value	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	
- 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	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.

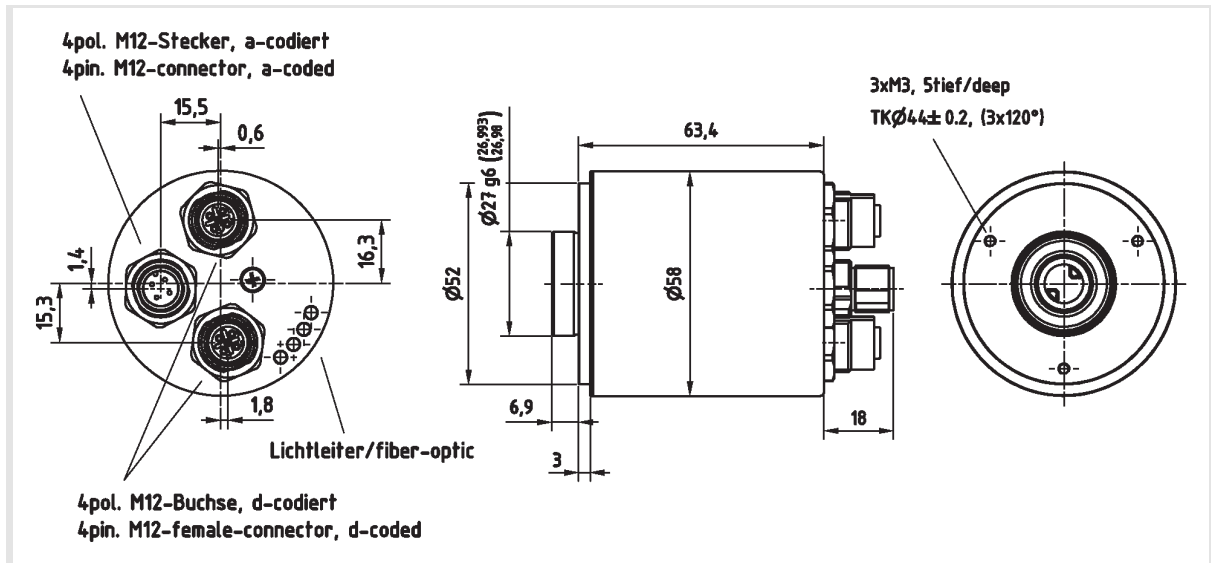
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## Dimensional drawing



Subject to change.