Absolute-Encoder CEV 58 S/M - EIP

Preliminary

Figure exemplary

+ EtherNet/IP interface
+ Type with solid shaft
+ Modular product line
+ Extensive parameter setting possibilities
+ Special parameters upon request
+ Short lead times
+ Further interfaces available
+ Modular construction for mechanical customizations

Characteristics

Supply voltage	11…27 VDC
Current consumption without load	< 350 mA
Total resolution [1]	Multi-Turn: ≤ 33 Bit, Single-Turn: ≤ 15 Bit
Number of steps/revolution, standard [1]	≤ 8.192
Number of steps/revolution, extended [1]	≤ 32.768
Number of revolutions, standard [1]	Multi-Turn: ≤ 4.096, Single-Turn: 1
Number of revolutions, extended [1]	Multi-Turn: ≤ 256.000, Single-Turn: 1
EtherNet/IP	IEC 61784-1:2003 CP 2/2 Type 2, IEC 61158:2003 Type 2
- Physical Layer	EtherNet/IP 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Output code	Binary
- Device profile	Encoder Device Profile 0x22, ODVA specification
- Transmission rate	100 MBit/s
- Transmission	CAT-5e cable, shielded (STP), ISO/IEC 11801
- Parameter [1]	Scaling parameter, Counting direction, Preset value
Mechanically permissible speed	≤ 12.000 min^{-1}
Shaft load, at the shaft end	≤ 10 N axial, ≤ 20 N radial
Bearing life time	≥ 3.9 * 10^{10} revolutions at
- Speed	≤ 6.000 min^{-1}
- Operating temperature	≤ 60 °C
- Shaft load, at the shaft end	≤ 5 N axial, ≤ 10 N radial
Permissible angular acceleration	≤ 10^4 rad/s^2
Moment of inertia	typically 2.5 * 10^{-6} kg m^2
Start-up torque at 20°C	typically 2 Ncm
Mass	0.3 kg…0.5 kg

[1] programmable parameter

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

Environmental conditions

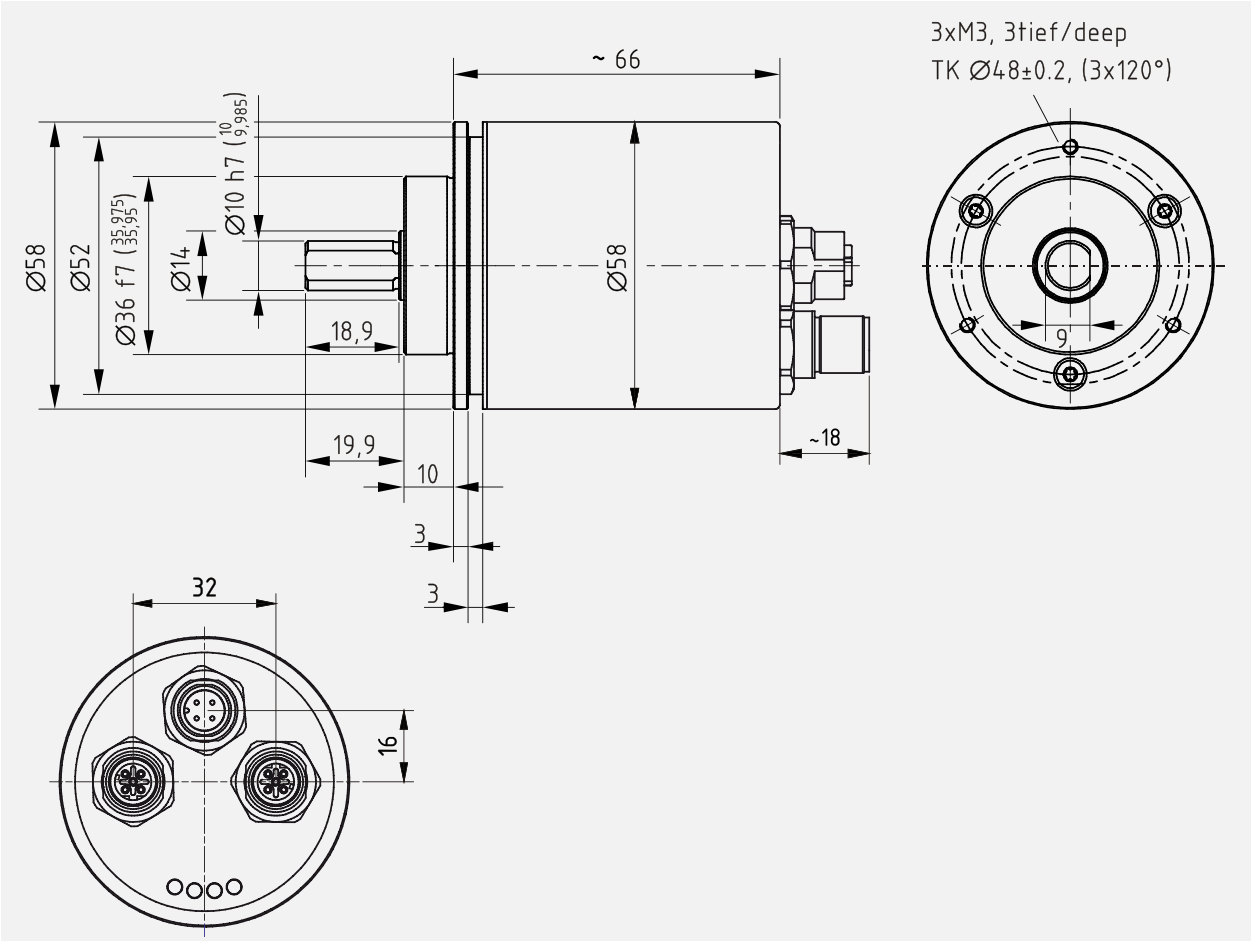
Vibration, DIN EN 60068-2-6: 1996 ..... ≤ 100 m/s², sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995..... ≤ 1000 m/s², half-sine 11ms
EMC
- Immunity to disturbance, DIN EN 61000-6-2: 2006
- Transient emissions, DIN EN 61000-6-3: 2007

Working temperature ..... 0 °C…+60 °C, optional -20 °C…+70 °C
Storage temperature ..... -30 °C…+80 °C, dry
Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing
Protection class, DIN EN 60529: 1991 [2)] ..... IP 65

[2)] valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

(For project planning please request customized dimensional drawing!)



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