TR ELECTRONIC GmbH
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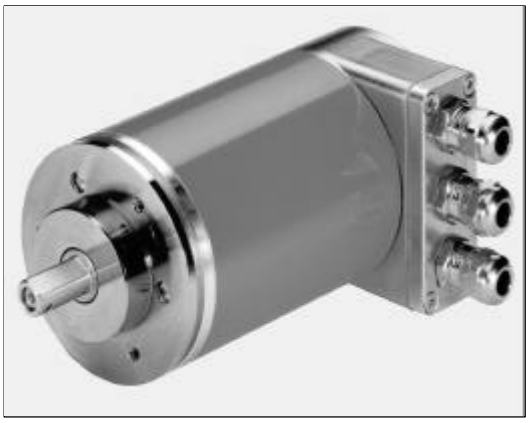
Absolute-Encoder CE-65-S PROFIBUS



- **Small and Compact**
- **Single-Turn**
- **Profibus-DP**
- **Programmable**
- **Standard Interchangeable Mounting Flanges**

Electrical Data

Encoder Capacity	max. 13 Bit
* Steps / Revolution	8192 Steps / Rev
Number of Revolutions	1 Revolution
Supply Voltage	11-27 VDC
Power Dissipation (No Load)	< 4 Watt
Programmable via RS485	PC IBM Compatible EPROG Software
* Output Codes (programmable)	Binary, Gray, BCD, Shifted Gray, Excess3, Shifted Excess3
Data Protocol	Profibus-DP (Din E 19 245 T.3) Same as SINEC-L2-DP
Standard Baud Rate	9.6 kbaud to 12 Mbaud
Option	3 to 12 Mbaud
* Station Address	3 - 99
Inputs	
* Forward / Reverse	Change direction of count
* Preset 1	Adjust absolute position to a given set value (i.e. zero set)
* Preset 2	Adjust absolute position to a given set value (i.e. zero set)
Logic Levels	“0“ < +2 VDC, “1“ > 8 VDC, max. 30 VDC
Pin Configuration	Upon Request

* Programmable Parameters

Environmental Data

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating Temperature	0°-60°C (32° to 140° F) / (Optional -20° to +70°C) (-4° to 158° F)
Extended Temperature (Optional)	-30° to +80°C (-22° to 176°F)
Relative Humidity	98 % (non condensing)
* Protection Class	IP 65 (DIN 40 050)

* The protection class of the encoder can be effected by the type of cable used.

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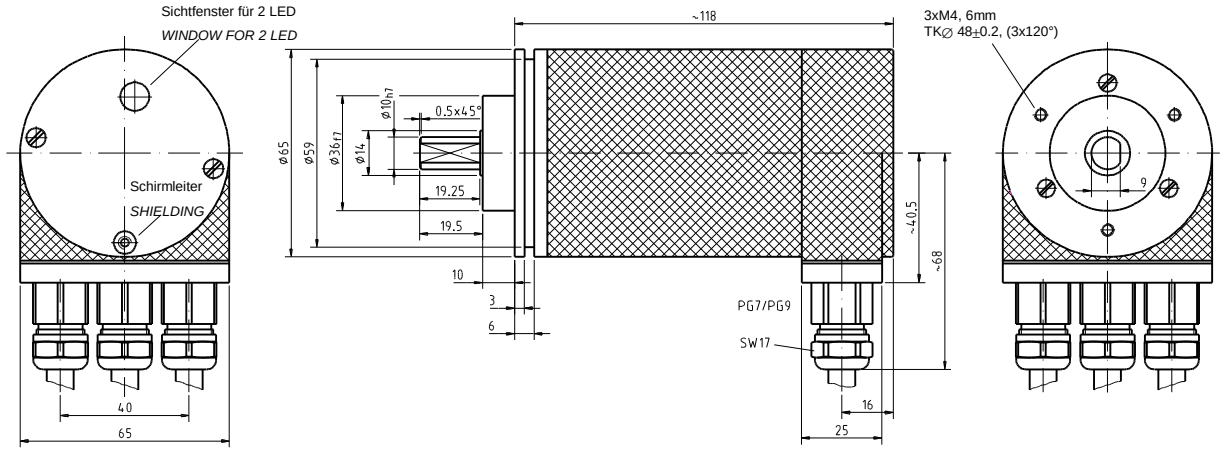
Mechanical Data

Maximum Rotational Speed	6000 RPM
Maximum Load on Shaft	40 N Axial, 60 N Radial (at end of shaft)
Lifetime on Bearings	3.9 x 10^{10} Revolutions at:
-Operational Speed	3000 RPM
-Load on Shaft	20 N Axial, 30 N Radial (at end of shaft)
-Operating Temperature	60°C (140°F)
Weight	0.7 kg (1.5 lb.)
Maximum Angular Acceleration	≤ 10^4 rad/s^2
Momentum of Inertia	2.5 x 10^{-6} kg m^2
Startup Momentum at 20°C (68°F)	2 Ncm
Vibration (50-2000 Hz Sinusoidal)	
DIN IEC 68-2-6	≤ 100 m/s^2 (10g)
Shock (11ms) DIN IEC 68-2-27	≤ 1000 m/s^2 (100g)
Standard Connector	3 X PG 9 radial mount

Dimensional Drawing



Für Schirmleiter:
Schraube M4x8 und Kabelschuh,
mit Zahnscheibe nach DIN 6797-A
4.3-FSt unterlegt.

FOR SHIELDING:
USE METRIC SCREW M4X8 WITH FORKED TERMINAL.
FOR GOOD CONTACT TO HOUSING USE A STUDDED
DISK DIN 6797-A 4.3-FST.