TR ELECTRONIC GmbH
Eglishalde 6
D-78647 Trossingen
Tel. +49 - (0) 74 25 / 228 - 0
Fax +49 - (0) 74 25 / 228 - 33
Germany

Absolute-Encoder CE-65-M SSI

- **Small and Compact**
- **Multi-Turn**
- **SSI (Synchronous Serial Interface)**
- **Programmable Encoder Parameters**
- **Standard Interchangeable Mounting Flanges**

Electrical Data

Encoder Capacity	max. 25 Bit
* Steps / Revolution	8192 Steps / Rev
* Number of Revolutions	4096 Revolution
Supply Voltage	11-27 VDC
Power Dissipation (No Load)	< 4 Watt
Programming via RS485	IBM Compatible EPROG Software, PT100 Programming Terminal
* Output Code (programmable)	Binary, BCD, Gray, Shifted Gray, Excess3, Shifted Excess3
Clock Input	Opto Coupler Isolated
Clock Frequency	95 kHz - 1 MHz
Transmission Cable Length	Dependent on Cable Cross Section, Shielding, Clock Frequency etc.…
Data Output	RS422 (2 wire)
* Output Format	Standard, Tree Format, with Repetition
Input Options	
* 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 connector used.

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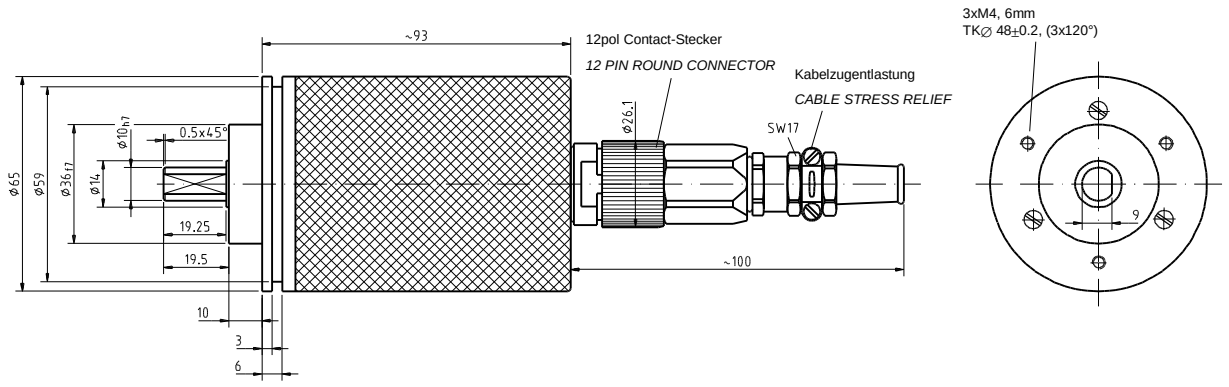
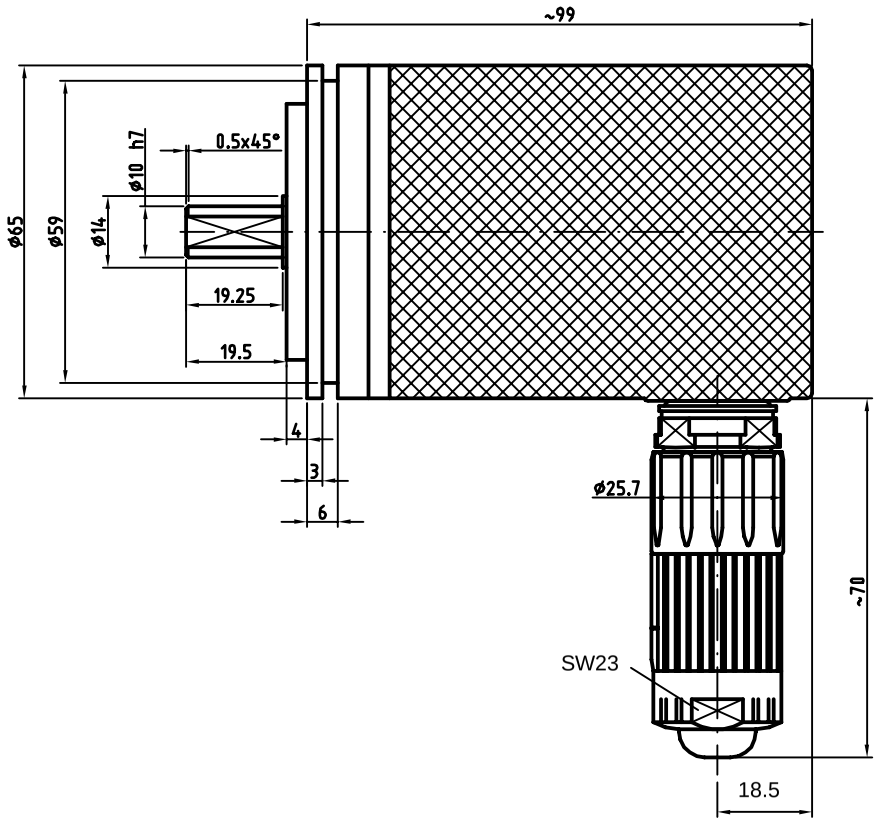
Mechanical Data

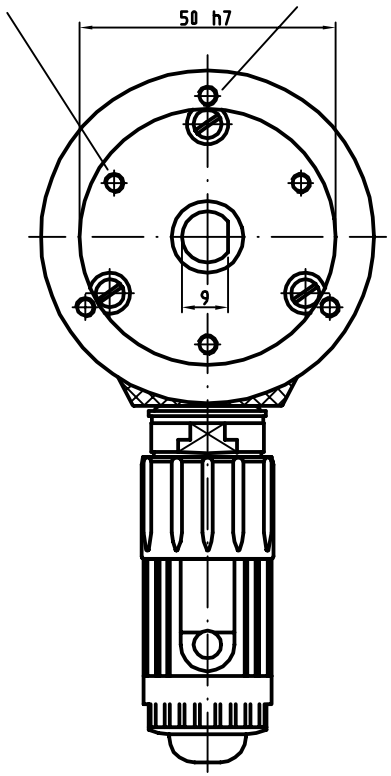
Maximum Rotational Speed	6000 RPM
Maximum Load on Shaft	40 N Axial, 60 N Radial (at end of shaft)
Lifetime on Bearings	3.9 x 10^{10} Revolutions at:
-Operational Speed	3000 RPM
-Load on Shaft	20 N Axial, 30 N Radial (at end of shaft)
-Operating Temperature	60°C (140°F)
Weight	0.7 kg (1.5 lb.)
Maximum 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	12 pin Contact Connector - Axial

Dimensional Drawing (For the North American stock item version please go to the next two pages)



(For the North American stock item version please go to the next two pages)





12 pin Contact

Model:	CE-65-M
Steps	8192
Revolutions	4096
Interface	SSI (Synchronous Serial)
Output Level	RS422
Code	Programmable
Supply Voltage	11 - 27 VDC
Protection Class	IP65
Default Temperature	0 - 60 C
Mounting Flange	ZB50
Shaft	10 x 19.5 mm long c/w flat
Connector	12 pin radial Contact with plug
Options	Programmable, pre set 1+2, F/R

50	h7	0 / -0.025	50.000 / 49.975
ø10	h7	0 / -0.015	10.000 / 9.985
Maß	Passung		

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Zust. Änderung

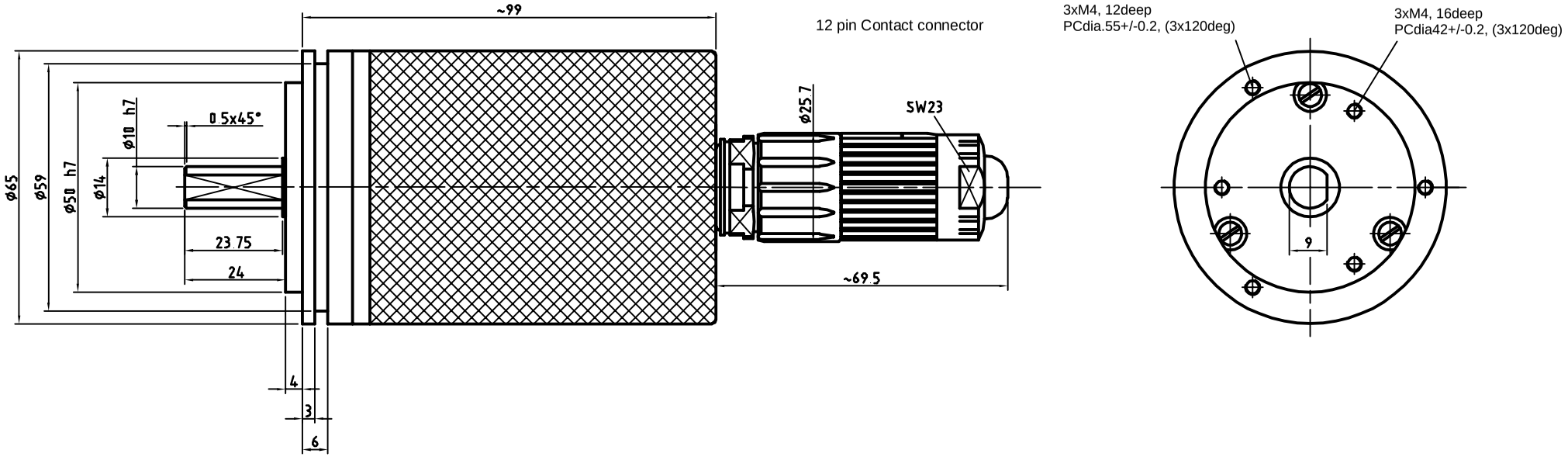
Erstellt 12.04.99 Habetler
Bearb.
Gepr.
Norm

Pin Out **185A**

Article No. **110-02062**

CE-65-M SSI

Drawing No. **04-418-2154**



MODEL:	CE-65-M
Steps	4096
Revolutions	4096
Interface	SSI
Output Level	RS422
Code	Programmable
Supply Voltage	11 - 27 VDC
Protection Class	IP65
Temperature Limit	0 - 60C
Mounting Flange	ZB50
Shaft	10 x 24 mm long with flat
Connector	12 Pin Contact with plug
Options	Programmable, Preset 1 & 2 F/R

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Zust.	Änderung	Datum	Name
4	Überarbeitung	02.08.01	Spiegelh
3	Steckerbelegung	04.08.95	Kosl.
2	Optionen	28.11.91	Kosl.
1	Mont.pos. Stecker	01.07.91	Kosl.

		Datum	Name
Erstellt		02.10.90	Koslowski
Bearb.			
Gepr.			
Norm			

EDV-NR.:

Maß	Passung
ø50	h7 50.000 / 49.975
ø10	h7 10.000 / 9.985

Maßstab 1:1 DIN A3 Projekt-Nr.:

Article No: 110-00156

CE-65-M SSI

Pin Out
185A

Drawing No: 04-418-040

Blatt 1 Bl