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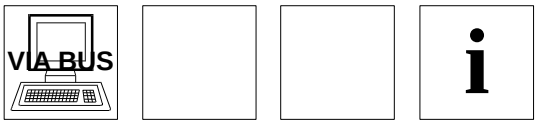
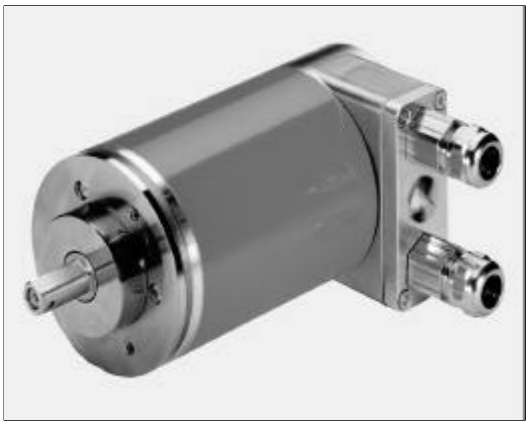
Germany

# Absolute-Encoder CE-65-M CAN



- **Small and Compact**
- **Multi-Turn**
- **CAN-Bus-Interface Device-Net-Profil**
- **Programmable via CAN-Bus**
- **Standard Interchangeable Mounting Flanges**

5

## Electrical Data

| | |
|---|---|
| Encoder Capacity | max. 25 Bit |
| Steps / Revolution | 8192 Steps / Rev |
| Number of Revolutions | 4096 Revolutions |
| Supply Voltage | 11-27 V DC |
| Power Dissipation (No Load) | < 4 Watt |
| Programming via CAN-Bus | CAN-Bus-Interface (ISO/DIS 11898) |
| Output Code (programmable) | Binary, Gray |
| Baud Rate (adjustable by switch) | 125 kbaud, line length up to 500 m |
| | 250 kbaud, line length up to 250 m |
| | 500 kbaud, line length up to 100 m |
| Size of encoder addresses | 0 to 63, adjustable by DIP-switches) |
| Terminating resistor | 123Ω, switchable |
| Programmable Parameters | |
| Count Direction | |
| Output Code | |
| Number of Steps per Revolution | |
| Number of Revolutions | |
| Preset Value | |
| Special Outputs | |
| - Error | |
| - Operating Range | |
| - Safe Region | |
| Pin Configuration | Upon Request |

## 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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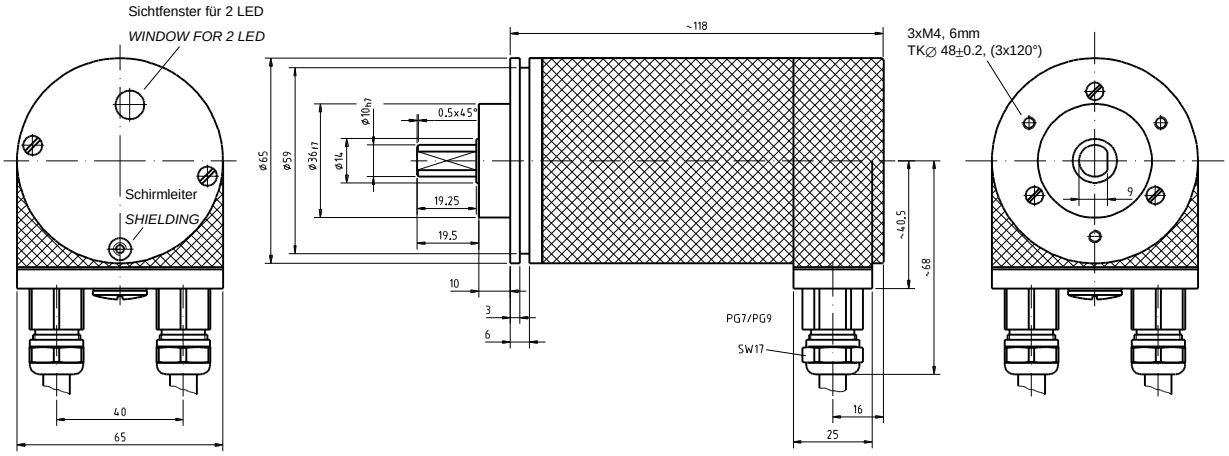
# Absolute-Encoder CE-65-M CAN

## 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 | 2 X PG 9 radial mount |

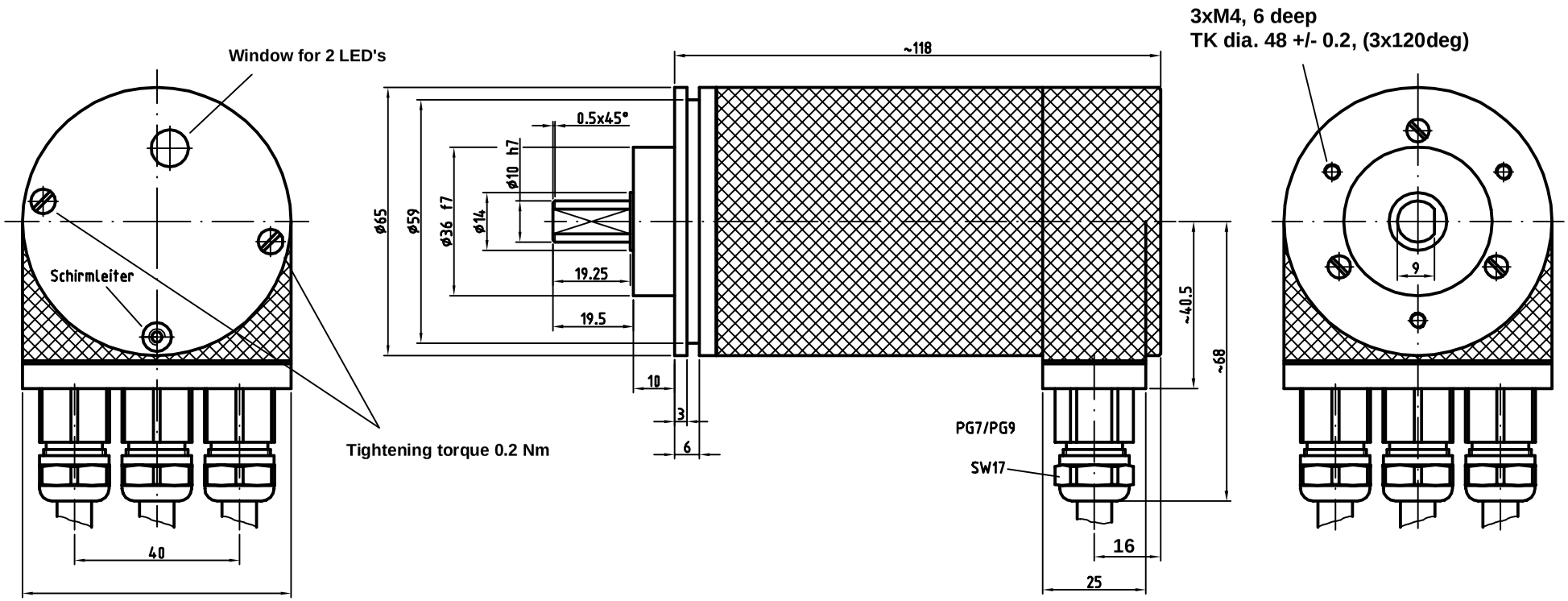
## Dimensional Drawing (For the North American stock item version please go to the next two pages)




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.*

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




**For shielding**
**M4x8 screw and cable lug with star washer complying to DIN6797-A 4.3-FSt.**

## Model: CE-65-M

| | |
|---|---|
| Steps | 8192 |
| Revolutions | 4096 |
| Interface | CAN/DeviceNet |
| Output Level | 82C250 |
| Code | Programmable |
| Supply Voltage | 11 - 27 VDC |
| Protection Class | IP65 |
| Default Temperature | 0 - 60 C |
| Mounting Flange | ZB36 |
| Shaft | 10 x 19.5mm long with flat |
| Connector | Retaining screws |
| | 3 x PG9 radial cable glands |
| Options | Programmable, F/R |

| | |
|---|---|
| 36f7 | -0.025 -0.050 |
| 10h7 | 0.000 -0.015 |
| Mass | Passung |

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| Zust. | Änderung | | |
|---|---|---|---|
| 1 | Steckerbelegung | 10.09.98 | Habetler |

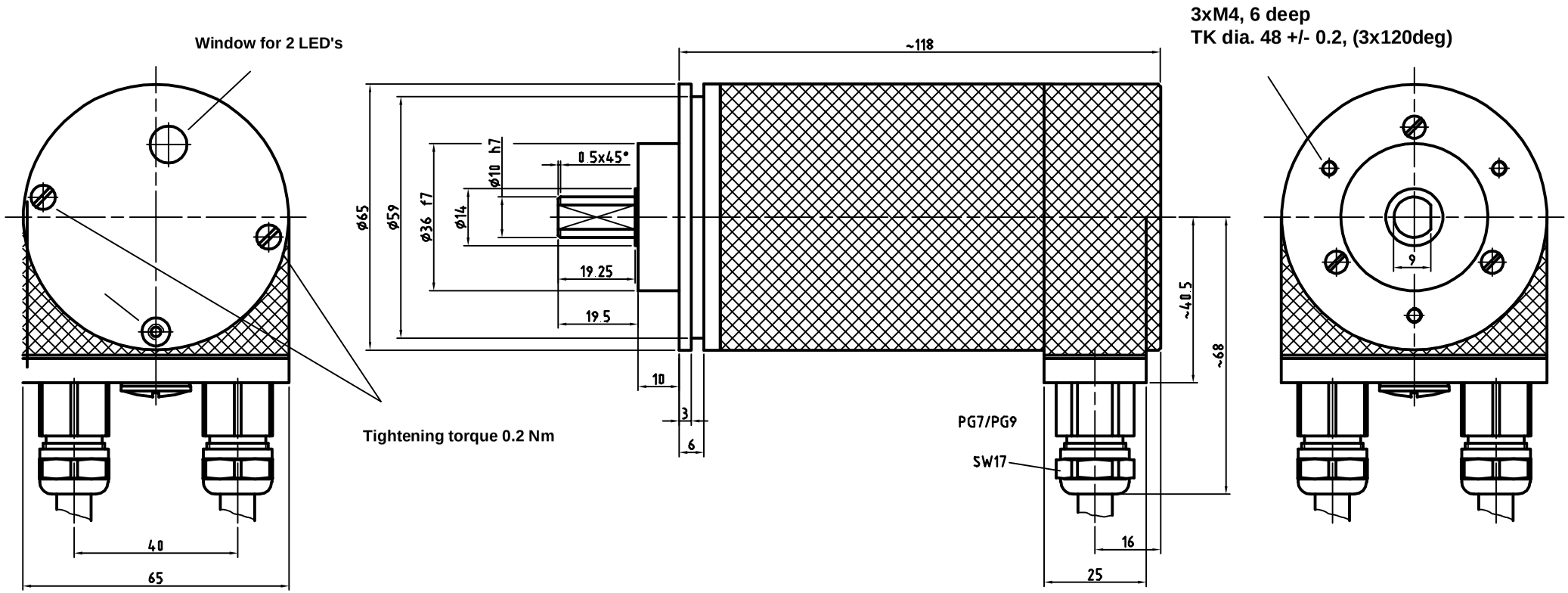
| | Datum | Name |
|---|---|---|
| Erstellt | 22.06.98 | Habetler |
| Bearb. | | |
| Gepr. | | |
| Norm | | |

Pin Out
TR-ECE-TI-D-0036

Maßstab 1:1 DIN A3 Projekt-Nr.:
Article No. 110-01878

**CE-65-M** CAN/DeviceNet

Drawing No. 04-418-1970
Blatt 1




**For shielding**
**M4x8 screw and cable lug with star washer complying to DIN6797-A 4.3-FSt.**

## Model: CE-65-M

| | |
|---|---|
| Steps | 4096 |
| Revolutions | 4096 |
| Interface | CAN/DeviceNet |
| Output Level | 82C250 |
| Code | Programmable |
| Supply Voltage | 11 - 27 VDC |
| Protection Class | IP65 |
| Default Temperature | 0 - 60 C |
| Mounting Flange | ZB36 |
| Shaft | 10 x 19.5 with flat |
| Connector | Retaining screws<br>2 x PG9 radial cable glands |
| Options | Programmable, Aluminum End Cap |

| | | |
|---|---|---|
| ø36 | f7 | -0.025 -0.050 / 35.975 35.950 |
| ø10 | h7 | 0.000 -0.015 / 10.000 9.985 |
| Maß | Passung | |

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| Zust. | Änderung | Datum | Name |
|---|---|---|---|
| 1 | Option ergänzt | 07.01.02 | Habetler |

| | Datum | Name |
|---|---|---|
| Erstellt | 24.08.99 | Habetler |
| Bearb. | | |
| Gepr. | | |
| Norm | | |

Pin Out
TR-ECE-TI-GB-0036
EDV-NR.:

Maßstab 1:1 DIN A3 Projekt-Nr.:

Article No. **110-02140**

**CE-65-M** CAN/DeviceNet

Drawing No. **04-418-2233**

Blatt 1