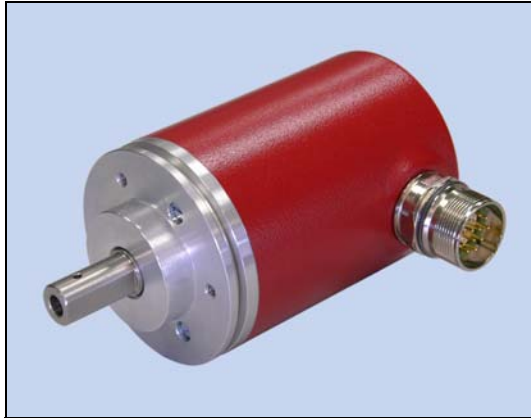
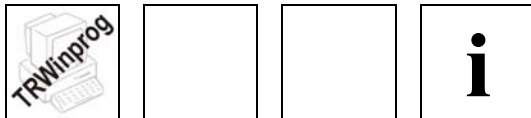


Absolute-encoder CEV65M-A



- **Analog interface and SSI interface alternative with current- or voltage-output available**
- **Analog value as speed or position value configurable**
- **Short lead time**
- **Modular product line**
- **Extensive parameterizable possible**
- **Customisations upon request**

Characteristics

Resolution total ¹⁾	≤ 16 Bit
Steps per revolution ¹⁾	≤ 8.192
Number of revolutions standard ¹⁾	≤ 32.768
Supply voltage	22 ... 27 VDC
Power consumption without load	< 3 Watt
Data interface analog A	
Voltage output ³⁾	- 10 VDC ... + 10 VDC with 14 Bit D/A converter ¹⁾
load resistance	≤ 500 Ω
Current output ³⁾	4 ... 20 mA with 14 Bit D/A converter ¹⁾
load resistance	≥ 500 Ω
Data interface synchronous serial SSI	
Clock input	optical coupler
Clock frequency	95 kHz ... 1 MHz
Data output	RS 422 - 2 wire
Output code ¹⁾	binary, gray
Output format ¹⁾	tree format 8 ... 32 number of data bits
Caution!	
Specify clock input- and data output data are dependent on cable cross section, cable length, shielding	
Inputs Logic level „0“ < 2 VDC, „1“ ≙ supply voltage	
Latch	for analog value
Preset adjustable	preset 1 and 2 ¹⁾
Mechanically permitted speed	≤ 6.000 min ⁻¹
Shaft loading	≤ 40 N axial, 60 N radial
Bearing life time at ≤ 3.000 min ⁻¹ , ≤ 60 °C	≥ 3,9*10 ¹⁰ revolutions
and 20 N axial, 30 N radial shaft loading	
Angular acceleration	≥ 10 ⁴ rad/s ²
Moment of inertia	typical 2,5*10 ⁻⁶ kg*m ²
Startup torque at 20°C or 68°F	typical 2 Ncm
Weight	typical 0,3 kg
Connection	4 pin M12 round connector radial / axial
¹⁾ Parameter setting via RS 485 interface with “TRWinProg”	
³⁾ Factory-aligned	

Environmental conditions

Vibration to DIN EN 60068-2-6:1996..... ≤ 100 m/s² sine 50-2000 Hz

Shock to DIN EN 60068-2-27:1995..... ≤ 1000 m/s² (100g) 11ms

EMC

Unloading of static electricity to DIN EN 61000-4-2:2001

Burst to DIN EN 61000-4-4:2004

Interference immunity to DIN EN 61000-6-2:2001

Operating temperature 0 °C ... 70 °C optional -40 °C ... +85 °C

Storage temperature range -40 °C ... +85 °C dry

Relative humidity to DIN EN 60068-3-4:2002 98 % non condensing

Protection class ¹⁾ IP 65 compliant EN 60529:1991

¹⁾ This is valid, if the plug connectors are connected correctly and/or the cable gland is screwed together correctly

Dimension drawing

