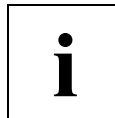
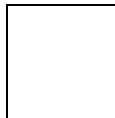
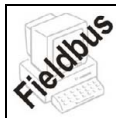


Absolute-Encoder CEV 115 M - PB

Eglishalde 6
D-78647 Trossingen
Tel. +49 - (0) 74 25 / 228 - 0
Fax +49 - (0) 74 25 / 228 - 33
http://www.tr-electronic.de
Germany



- PROFIBUS-DP / SSI - interface
- Type with solid shaft
- Extensive parameter setting possibilities
- Rugged construction
- For use in heavy machine industries
- Integrated in a special TR aluminum profile housing

5.A

Characteristics

Supply voltage.....	11...27 VDC
Current consumption without load	< 350 mA
Total resolution ¹⁾	≤ 25 Bit
Number of steps/revolution ¹⁾	≤ 8.192
Number of revolutions ¹⁾	≤ 4.096
Profibus-DP V0	IEC 61158, IEC 61784
PNO Encoder-Profile.....	Class 1 and 2
- Parameter ¹⁾	Switch-over count direction, scaling function etc.
Output code ¹⁾	Binary, Gray, shifted Gray
Addressing	3...99, adjustable by means of rotary switches
Baud rate.....	9.6 kbit/s...12 Mbit/s
TR-specific functions ¹⁾	Gearbox, velocity output, limit switches, SSI configuration, external Preset inputs
SSI (optional)	Synchronous-Serial-Interface
Clock input	Optocoupler
Data output.....	RS-422, 2-wire
Clock frequency	80 kHz – 1 MHz
Mono time t _M	18 μs
Output code ¹⁾	Binary, Gray, shifted Gray
Number of data bits ¹⁾	≤ 32
Output format	MSB left-justified
Preset 1 and 2.....	electronic adjustment
Logic level	"0" < + 2 VDC, "1" = Supply voltage
Mechanically permissible speed	≤ 3.600 min ⁻¹
Shaft load, at the shaft end	≤ 100 N axial, ≤ 150 N radial
Bearing life time	≥ 2.8 * 10 ¹⁰ revolutions at
- Speed	≤ 3.000 min ⁻¹
- Operating temperature	≤ 60 °C
- Shaft load, at the shaft end.....	≤ 60 N axial, ≤ 90 N radial
Permissible angular acceleration	≤ 10 ⁴ rad/s ²
Mass.....	typically 6 kg

¹⁾ programmable parameter

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996..... $\leq 245 \text{ m/s}^2$, sine 50-2000 Hz

EMC

- Discharge of static electricity, DIN EN 61000-4-2: 2001
- Burst, DIN EN 61000-4-4: 2004
- Immunity to disturbance, DIN EN 61000-6-2: 2001

Working temperature..... $-20 \text{ }^\circ\text{C} \dots +70 \text{ }^\circ\text{C}$

Storage temperature..... $-30 \text{ }^\circ\text{C} \dots +80 \text{ }^\circ\text{C}$, dry

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

Protection class, DIN EN 60529: 1991 ²⁾..... IP 67, double protective housing

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

Dimension drawing

