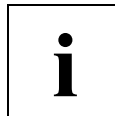
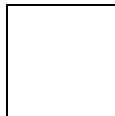
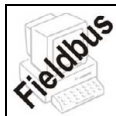


## Absolute-Encoder CEV 58 S - PB

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 interface
- Type with solid shaft
- Modular product line
- Extensive parameter setting possibilities
- Special parameters upon request
- Short lead times
- Further interfaces available
- Modular construction for mechanical customizations

**5.A**

### Characteristics

Supply voltage.....	11...27 VDC
Current consumption without load .....	< 350 mA
Total resolution <sup>1)</sup> .....	≤ 13 Bit
Number of steps/revolution <sup>1)</sup> .....	≤ 8.192
Number of revolutions.....	1
Profibus-DP V0 .....	IEC 61158, IEC 61784
PNO Encoder-Profile.....	Class 1 and 2
- Parameter <sup>1)</sup> .....	Switch-over count direction, scaling function etc.
Output code <sup>1)</sup> .....	Binary, Gray, shifted Gray
Addressing .....	3...99, adjustable about rotary switches
Baud rate.....	9.6 kbit/s...12 Mbit/s
TR-specific functions <sup>1)</sup> .....	Gearbox, velocity output
Mechanically permissible speed .....	≤ 12.000 min <sup>-1</sup>
Shaft load, at the shaft end .....	≤ 10 N axial, ≤ 20 N radial
Bearing life time .....	≥ 3.9 * 10 <sup>10</sup> revolutions at
- Speed .....	≤ 6.000 min <sup>-1</sup>
- Operating temperature .....	≤ 60 °C
- Shaft load, at the shaft end.....	≤ 5 N axial, ≤ 10 N radial
Permissible angular acceleration .....	≤ 10 <sup>4</sup> rad/s <sup>2</sup>
Moment of inertia .....	typically 2.5 * 10 <sup>-6</sup> kg m <sup>2</sup>
Start-up torque at 20°C .....	typically 2 Ncm
Mass.....	0.3 kg...0.5 kg

<sup>1)</sup> programmable parameter

## Environmental conditions

Vibration, DIN EN 60068-2-6: 1996.....  $\leq 100 \text{ m/s}^2$ , sine 50-2000 Hz  
Shock, DIN EN 60068-2-27: 1995.....  $\leq 1000 \text{ m/s}^2$ , half-sine 11ms  
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.....  $0 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$ , optional  $-20 \text{ }^\circ\text{C} \dots +70 \text{ }^\circ\text{C}$

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 <sup>2)</sup> ..... IP 65

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

## Dimension drawing

