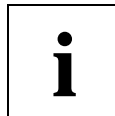
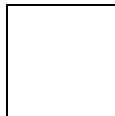
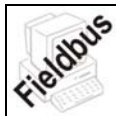


## Absolute-Encoder CEK 58 S - PB

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 integrated claw coupling
- 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 by means of 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.....                                | radial coupling forces                             |
| Bearing life time .....                        | ≥ 3.9 * 10 <sup>10</sup> revolutions at            |
| - Speed .....                                  | ≤ 6.000 min <sup>-1</sup>                          |
| - Operating temperature .....                  | ≤ 60 °C  |
| 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

