

Very compact, easy to use, all fieldbus interfaces  
 Stainless steel housing  
 Flexible stainless steel cable Ø 0,5 mm  
 Strong spring mechanics  
 Precision cable drum



## Robust Absolut Weggeber AWS 101

Robust Linear Motion Transducer with Standard Absolute Encoder, 2.500 mm range, Stainless steel housing Ø 100 x 180 mm, For operation at rough conditions, Optional air-cooling, electrical heating against condensing of humidity, Protection IP 67

### Used encoder

#### Used encoder

Absolut Encoder EAM 57 / EAMS 57 SSI  
 Absolut Encoder EAM 58 Interbus  
 Absolut Encoder EAM 58 Profibus  
 Absolut Encoder EAM 58 CANopen® / Device Net  
 Absolut Encoder EAM 58 / EAMS 58 Ethernet Powerlink

### Type explanation

#### AWS 101-25-10/EAM57-25B-30-D-SC12

|                         |  |
|-------------------------|--|
| Measuring range         | 25 = 2.500 mm  |
| Robust Encoder          | AWG101   |
| Stainless steel housing | Yes  |
| Encoder type            | Absolute   |
| Case diameter           | Ø 100 mm   |
| Number of bits          | 24 = 12 bits x 4096 turn<br>25 = 13 bits x 4096 turn   |
| Supply voltage          | 30 = 10 .. 30 VDC  |
| Interface               | IBS = Interbus<br>PB = Profibus<br>CO = CANopen®<br>DN = Device Net<br>PL = ETHERNET Powerlink |
| Output driver           | D-SSI  |
| Position of connection  | R<br>S   |

## Technical data

### Mechanical data

|                        |  |
|------------------------|--|
| Acceleration of cable  | ? 30 ms <sup>-2</sup>  |
| Side movement of cable | ? 3°   |
| Weight                 | ca. 5,5 kg (SSI, INTERBUS)<br>ca. 6,5 kg (ETHERNET Powerlink, Profibus,<br>CANopen®, Device Net) |

### Environmental conditions

|                       |   |
|-----------------------|---|
| Vibration             | 100 ms <sup>-2</sup> (10 ... 1000 Hz)                           |
| Shock                 | 300 ms <sup>-2</sup> (12 ms)                                    |
| Operating temperature | 0 ... +85°C   |
| Storage temperature   | -40 ... +85°C   |
| Atmospheric humidity  | ? 95% r.h.  |
| Protection class      | IP 67 (Encoder)<br>IP 40 (Mechanic of Linear Motion Transducer) |

### Electrical data

|                        |                          |
|------------------------|--------------------------|
| Scanning type          | Optical, without contact |
| Transmitter, infrared  | LED                      |
| Receiver               | Photo-Array              |
| Scanning frequency LSB | 800 kHz                  |
| Supply voltage         | Vcc = 10...30 VDC        |
| Power consumption      | ? 180 mA (Vcc = 24 V)    |

### AWG options

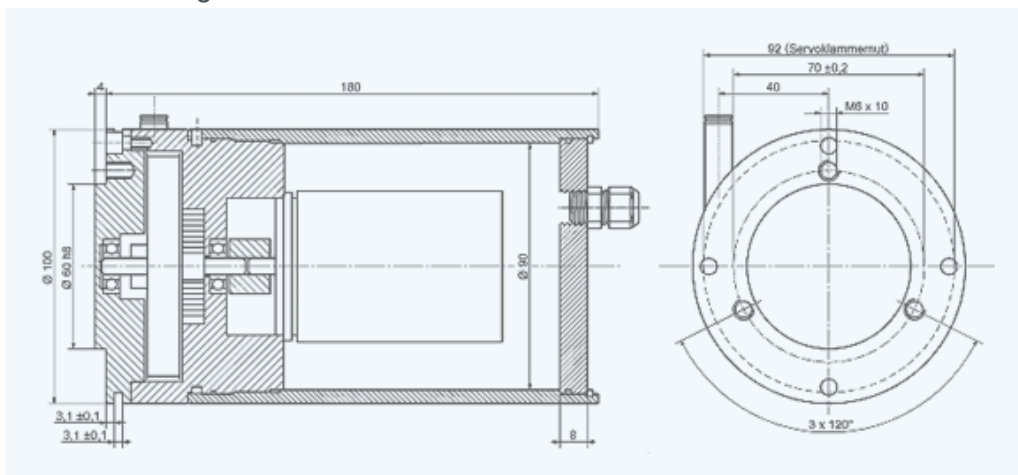
#### Electrical heating

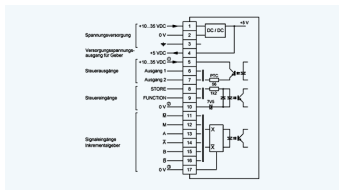
|                     |  |
|---------------------|--|
| Temperature control | Thermostat +5° / +15°C                     |
| Power consumption   | 18 W (12 V / 1,5 A)<br>72 W (24 V / 3,0 A) |

#### Forced-air cooling

|                          |                         |
|--------------------------|-------------------------|
| Pressure reducing valves | 1 bar, input and output |
|--------------------------|-------------------------|

## Outline drawing





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