

Display options:

Version 1:

| | |
|-------------------------------------------|-----------------------------------------|
| 360° stepper motor display | 4320 steps, resolution 0.083° |
| Vertical LED ¹⁾ bar graph | 49 LEDs (as bars or points) |
| Horizontal LED ¹⁾ bar graph or | 49 LEDs (as bars or points) or |
| Digital display | 7-segment, 4 characters digital display |

Version 2:

| | |
|-------------------------------------------|-----------------------------------------|
| 270° stepper motor display | 3280 steps, resolution 0.083° |
| Vertical LED ¹⁾ bar graph | 49 LEDs (as bars or points) |
| Horizontal LED ¹⁾ bar graph or | 49 LEDs (as bars or points) or |
| Digital display | 7-segment, 4 characters digital display |



1) Available in red, green, yellow, or in colour combinations

Mesurement input:

Configuration 1:

1 x CAN bus
2 x analogue input: 4 ...20 mA DC (0 ... 10 V, +/-10 V DC, 0 ... 20 mA, +/-20 mA, 0 ... 1 mA)
Note: measurement inputs are galvanically isolated from each other

Configuration 2:

3 x analogue input: 4 ...20 mA DC (0 ... 10 V, +/-10 V DC, 0 ... 20 mA, +/-20 mA, 0 ... 1 mA)
Note: measurement inputs are galvanically isolated from each other

Configuration 3:

1 x CAN bus for all displays

The measurement inputs are configured in the factory.

Operating elements:

For analogue input: potentiometer for zero-point adjustment and end-point adjustment.

Rotary switch on the rear for:

- ⇒ adjustment of brightness levels
- ⇒ adjustment of the CAN bus adress in the range from 1 to 126 or adjustment of the PDO (0 x 180 + rotary switch adress setting)

Error messages:

If the measured value is too high or too low, a corresponding message is shown on the 7-segment display, and alternates with the display value.

The messages have the following meanings:

- ⇒ uFA value under minimum (A)
- ⇒ oFA value over maximum (A)
- ⇒ uFb value under minimum (bar graph)
- ⇒ oFb value over maximum (bar graph)
- ⇒ uFd value under minimum (numeric)
- ⇒ oFd value over maximum (numeric)

Sensor break in measuring range 4 ... 20 mA:

If the measured value is below 2 mA, this is interpreted as line breakage; an error message is shown on the 7-segment display, and alternates with the measured value.

- Err 2 line breakage (A)
- Err 3 line breakage (bar graph)
- Err 4 line breakage (numeric)

Technical Data

| | | |
|------------------------|-------------|-----------------|
| Auxiliary voltage | 18 ... 36 V | |
| Overvoltage category | CAT III | EN 61010-1:2001 |
| Operating grid voltage | 50 V | EN 61010-1:2001 |

Housing

| | |
|------------------------|-------------------------------------------------|
| Dimensions (W x H x D) | 96 x 96 x101 mm |
| Cut out | 92 ^{+0,8} x 92 ^{+0,8} mm |
| Weight | approx.570 g |
| Fastening | screw clips for control panel thickness ≤ 15 mm |
| Connections | 13-pole |
| Protection degree | front IP56, connections IP20 |

Ambient conditions

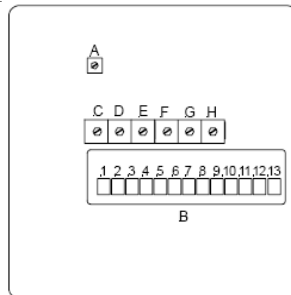
| | |
|---------------------------|---------------------------------------------|
| Operating temperature | 0 ... 50 °C |
| Storage temperature | -20 ... 70 °C |
| Relative humidity | up to 90% (non condensing) |
| Degree of pollution | 2 as per EN 61010-1:2001 |
| EMC interference emission | EMC Directive 89/336 EWG/EEC, EN 61326:2004 |
| interference resistance | EMC Directive 89/336 EWG/EEC, EN 61326:2004 |

Measuring accuracy

| | |
|---------------------------|------------------------------------------------------------------------------------------|
| SM 270° | 0.5 |
| SM 360° | 0.5 |
| Bar graph | 2.5 % with zero point at beginning / end of scale 5.0 % with zero point in the middle |
| 7 segment digital display | 0.5 ±1 digit |

Rear view

- A: DIM - analog
- B: Connection
- 1 PWM +
- 2 PWM -
- 3 Invers +
- 4 Invers -
- 5 input step motor +
- 6 input step motor -
- 7 input bar +
- 8 input bar -
- 9 input 7-segment +
- 10 input 7-segment -



- 11 not used
- 12 UH +
- 13 UH -
- C end point 7-segment
- D not used
- E end point bar
- F not used
- G end point step motor
- H not used