

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 x 101 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

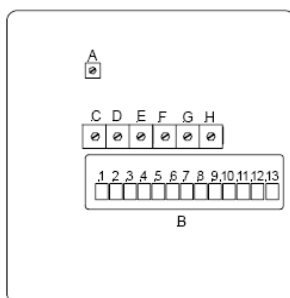
Operating temperature	0 ... 50 °C
Storage temperature	-20 ... 70 °C
Relative humidity	up to 90% (non condensing)
Degree of pollution	2 as per EN 61010-1:2001
EMC interference emission	EMC Directive 89/336 EWG/EEC, EN 61326:2004
interference resistance	EMC Directive 89/336 EWG/EEC, EN 61326:2004

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