



SSI Display Module MOD 14

Display with programmable outputs for Absolut-Encoder with SSI-Interface

MOD 14 - a programmable multifunctional display module for absolute encoders with SSI-Interface. Single-turn or multi-turn encoders with a resolution up to 25 bit and Gray-Code are suitable for operation. Display parameters are fully programmable. MOD 14 has the usual standardfunction of a display modul, but additional four control outputs, which can be programmed separately as comparator, cam switch or pulse switch. Easy programming by four front-panel keys.

SSI-Interface

For operation of absolute single- or multiturn-encoders with resolution up to 25 bit with serial SSI-Interface.

Display-Scaling

Scale factor, adjustment values and counting direction are free programmable.

Control-Inputs

Optically insulated control-inputs for electronic adjustment and storage of indicated value.

Control-Outputs

4 optically insulated control-outputs, which can be programmed separately as a comparator, cam switch or pulse switch.

Analogue-Outputs

2 optically insulated programmable analogue-outputs with resolution of 14 bit.

Parallel-Interface

Optically insulated in- and outputs for parallel data in/out in Binary-, Gray or BCD-code. Through parallel inputs values for electronic adjustments or set off against the indicated value can be read in. Parallel outputs are useful for data output of the indicated value.

RS 485-Interface

Serial interface RS 485 for external control of all function of display modules MOD 14.

Type explanation

Technical data

Technical Data

Supply voltage	+10 ... 35 VDC
Power consumption	< 250 mA (< 150 mA, V _{cc} = 24 VDC)
Cycle time	5 ms
Display range	-9999999 ... 99999999
Display	rote 7-Segment-LED-Anzeige 8-stellig mit 14 mm Ziffernhöhe <i>8-digit 7-segment red LED display, 14 mm high</i>
Data memory	EEPROM
Operating temperature	0 ... +50°C
Connections	Klemmleiste / <i>Terminal block</i> max. 1,5 mm ² Sub-D-Stecker / <i>Sub D connector</i>
Weight	< 0,6 kg
Protection class	Frontplatte / <i>front</i> : IP 50 mit Schutzgehäuse / <i>with protective cover</i> : IP 54 Rückseite / <i>rear</i> : IP 20

SSI interface

Clock frequency	125 kHz
Clock output	RS485
Clock input	Optokoppler RS485

Control inputs

Circuit	Optokoppler
Input level Low	0 ... +5 VDC
Input level High	+10 ... 35 VDC
Input resistance	1,8 kOhm, U _{in} = 24 V

Control outputs

Circuit	Optokoppler
Supply voltage	max. +35 VDC
Output voltage	min. V _{cc} -3,5 V, I _{out} = 50 mA
Output current	max. 50 mA

Analogue Voltage-Output

voltage range	-10 ... +10 VDC
Resolution	1,22 mV = 14 Bit
Offset error	max. 1 mV (T = 25°C)
Output current	max. 10 mA, kurzschlussfest / <i>short-circuit proof</i>

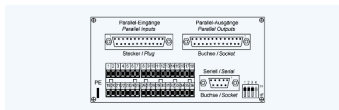
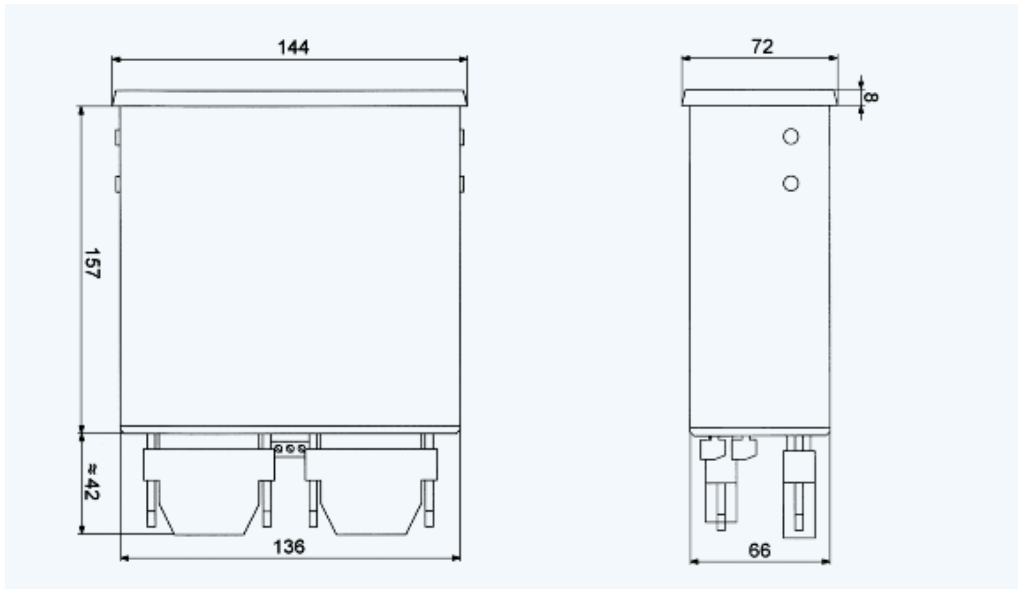
Analogue Current-Output

Current range	-20 ... +20 mA
Resolution	2,44 µA = 14 Bit
Offset error	max. 2 µA (T = 25°C)
Burden	max. 550 Ohm

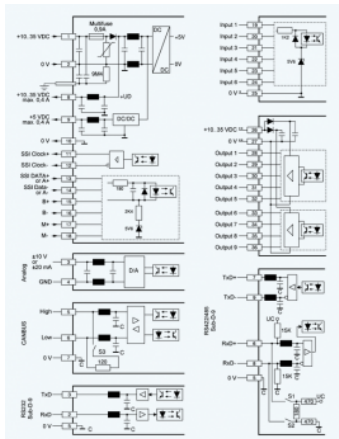
RS485 interface

Circuit	RS485
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Outline drawing



Anschlußbild Rückseite



Anschlußschema

Version ZE 607-203 · Subject to change

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