



Product information

INDUcoder

Display Module MOD 21

Display module for simultaneous operation of two encoders, absolute or incremental encoders in any combination

8 control inputs and 16 control outputs
40 programmable cam switches

SSI-interface / CANbus / RS422/485-interface
and RS232-interface for PC-connection

The display module MOD 21 is a programmable multifunctional display module, which **provides for the first time simultaneous operation of two encoders**. **Absolute single- or multi-turn encoders with SSI interface and a resolution up to 30 bit or incremental encoders can be connected in any combination.**

The MOD 21 has the usual standard function of a display module. The displayed parameters for scale factor, reference value, counting direction and zero offset are separately programmable for both encoder inputs. **16 control outputs can be programmed separately by 40 cam switches** as threshold switch, cam switch or pulse switch. For data source of display and cam switches position or velocity of one of both encoders or difference of position can be selected. Due to the **cycle time of only 500 µs** display module MOD 21 is also suitable for time-critical applications. Different functions, like storing the displayed value or enabling the counter, can be controlled **by 8 programmable external input signals**.

The display module provides an **analogue output**, programmable as **voltage output from -10 to +10 V** or as **current output from -20 to +20 mA**. For data source of the analogue output position or velocity of one of both encoders can be selected. The digital values are converted to the analogue output signals by a **high-precision 16-bit D/A-converter**. Scaling factor and zero offset of the analogue signal are programmable too. The analogue output parameters are programmable in a way that the **full voltage or current range is used within any angular range of one of both encoders**.

For serial communication the MOD21 offers **CANBUS interface, RS232 interface, and RS422/485 interface**. Connection of the display module MOD 21 to a PC is possible via RS232 or RS422 interface. **Using the RS485 interface up to 31 display modules MOD 21 can be programmed and read out simultaneously by one PC.**

Supply voltage of MOD 21 is 10 to 35 VDC; power consumption is less than 150 mA. In case of voltage breakdown the counter value of the incremental shaft encoders are written to an EEPROM. Therefore the last values are available, when the device is switched on again.

With its dimensions of 157 x 144 x 72 mm the case is prepared for panel mounting. Data is displayed by a red 8-digit 7-segment LED display with digit height of 14 mm. Protection class of the front panel is IP 50, IP 54 with protective housing. Protection class of the rear panel is IP 20. Operation temperature is 0° to 50° Celsius.

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