**Data sheet**


RCO 816D-E

**Application**

Controlesta RCO 816D-E is an Input/Output Expander Module. The module can be used for the expansion of the inputs and outputs of the RCO 5.../8... Controller series. Controller and Expander Module are connected by use of 10-pole cable. Up to 2 Expander Modules can be connected to a controller of the RCO 5.../8... series

**Features**

- I/O bus
- 8 universal inputs
- 4 analogue outputs
- 4 digital outputs
- DIN-rail mounting
- Pluggable screw terminals
- Approved to European EMC standards CENELEC EN 50 082-1 and EN 55 011
- CE-Approval

**Environmental conditions**

| | |
|---|---|
| Ambient temperature | 0 ... 50 °C |
| Storage temperature | -20 ... 60 °C |
| Ambient humidity | 0 ... 90 % rh., non condensing |
| Protection Class | III |

**Execution**

| | |
|---|---|
| Housing | plastic, for DIN-rail mounting |
| Production | According to ROHS |
| Dimensions | w x h x d, 105 x 112 x 58 mm |
| Weight | 210 g |

**Electrical data**

| | |
|---|---|
| Power supply | over the Quick-Connector |
| Power consumption | 8,5 W |
| I/O bus | Quick-Connector with 10-pin |
| Wire capacity | 14 ... 24 AWG (0,25 ... 2,5 mm$^2$) |
| Main tightening torque | 4 In-lb (0,45 Nm) |
| Protection acc. to EN60529 | IP 20 |

**Function data**

Inputs: 8 universal inputs, following functions are selectable:
- 0 ... 10 VDC with 12 Bit resolution, digital
- NTC 10 kOhm, NTC 30 kOhm, NTC 4,7 kOhm, NTC-Satchwell, PTC 1k, TAC, Pt1000, Ni1000 and RFB215 (Positioner)
  with 16 Bit resolution also useable as digital input
  Further sensor characteristics can be adjusted with Engineering software RCO-tool.

Per input a two-coloured LED is integrated.
- Use as analogue temperature input:
  The LED can be configured acc. to an upper and lower limit value. If the measured temperature is within the given limit values the LED shines green, otherwise red

## Function data

LED´s:

- Use as analogue input (0 ... 10 VDC):
  The LED shines in dependence of the output signal with 1 s/1V; e.g. 7 VDC: LED 7 sec. on; 3 sec. off 0 VDC: LED off; 10 VDC: LED on
- Use as digital input:
  It´s selectable whether the LED shall shine red or green, in case the signal is active or not active

Outputs:

4 analogue outputs, 0 ... 10 VDC, 10 Bit resolution, load max. 10 mA.

- Per output a LED is integrated
  The LED shines in dependence of the output signal with 1 s/1V; e.g. 7 VDC: 7 sec. green on, 3 sec. off; 0 VDC: LED off; 10 VDC: LED green on

4 digital outputs with closing contact for 230 V / 4 A

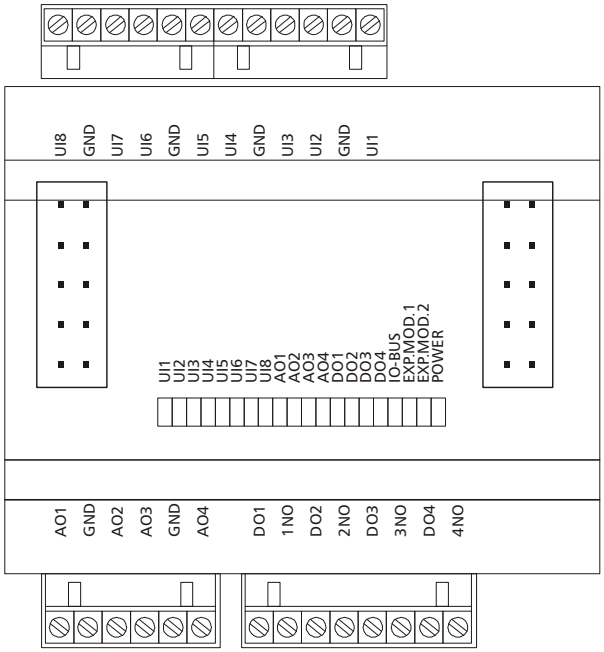
- Per output a two-coloured LED is integrated
  output active LED green
  output not active LED off

## DIP-switch settings

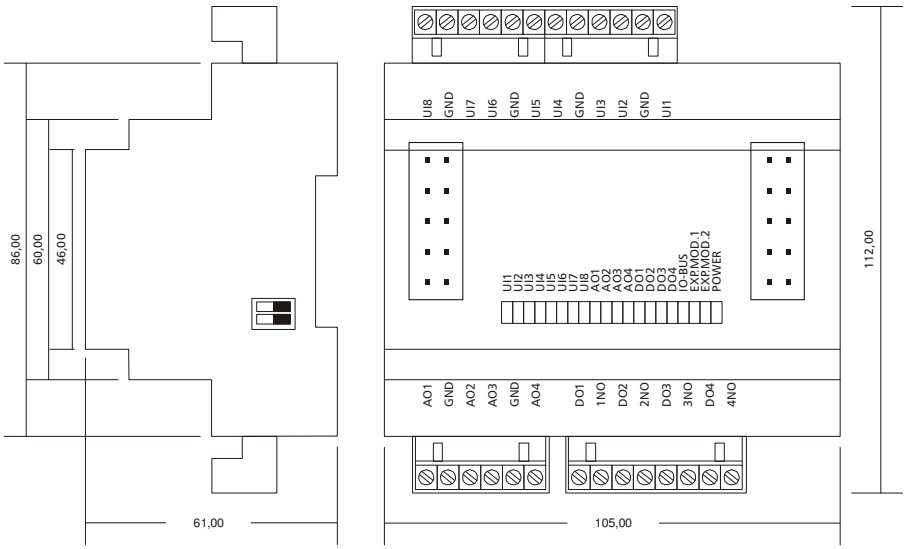
Address 1

Address 2

## Connection allocation




## Dimension drawing




## Delivery scope

RCO 816D-E
1 x Connection cable to RCO 8...