



# MOD-REL8\_10A

Hardware description

2023 März

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# Introduction

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# **1. Introduction**

## **1.1. Foreword**

### **Congratulations on purchasing a high quality DEDITEC product!**

Our products are developed by our engineers according to today's required quality standards. We pay attention already during the development to flexible expandability and long availability.

### **We develop modular!**

Due to a modular development we shorten the development time and - what of course benefits the customer - we sell at a fair price!

### **We ensure a long delivery availability!**

If used semiconductors are no longer available, we can react faster. With us mostly only modules have to be redesigned and not the whole product. This increases the delivery availability.

## **1.2. Customer satisfaction**

### **A satisfied customer is our first priority!**

If something is not to your satisfaction, just contact us by phone or mail.

We will take care of it!

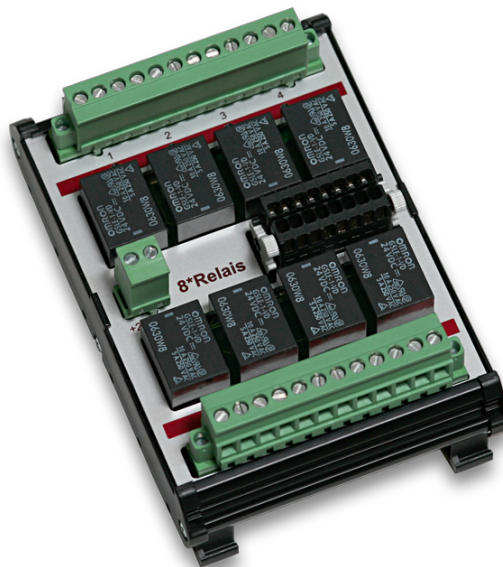
## **1.3. Customer response**

The best products grow with our customers. We are always grateful for any suggestions or proposals.

## 1.4. Brief description

The "MOD-REL8\_10A" is a power or expansion module that has eight changeover relays with a switching capacity of 40V/10A AC or 40V/8A DC. External low-power outputs e.g. of a PLC, relay or optocoupler can be used for switching.

24V/DC are required as power supply. An external connection cable to our RO modules is optionally available. The DIN rail mounting facilitates the installation at development places and distribution cabinets.



# Commissioning



## **2. Commissioning**

### **2.1. Step 1 - Safety instructions**

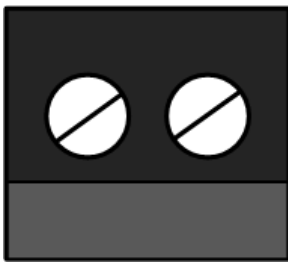
Before commissioning your DEDITEC product, please familiarize yourself with this manual and read the following points carefully:

- Damage caused by non-observance of these operating instructions will void the warranty or guarantee of this product. We do not accept any liability for consequential damage!
- We do not accept any liability for damage to property or personal injury that could result from improper handling or non-observance of the safety instructions!
- Avoid touching electronic components on the circuit board directly. This could lead to electrostatic discharges and destroy sensitive components. As a precaution, always discharge before touching an electrically grounded object.
- Unauthorized conversions or technical modifications to this product are not permitted for safety and approval reasons (CE) and will void the warranty or guarantee.
- Do not operate the module outside the maximum permissible technical data.
- The product is not suitable for operation in damp or wet environments.

## 2.2. Step 2 - Connecting the power supply

Select a suitable power supply\* with sufficient power of at least 5 watts and an output voltage of, for example, +7VDC or +24VDC.

The power supply is connected to the 2-pole pluggable screw terminal. Please note the polarity as shown below. Left V+ and right V-.



\* A suitable industrial power supply can be purchased from us as an accessory.



# Hardware description

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## **3. Hardware description**

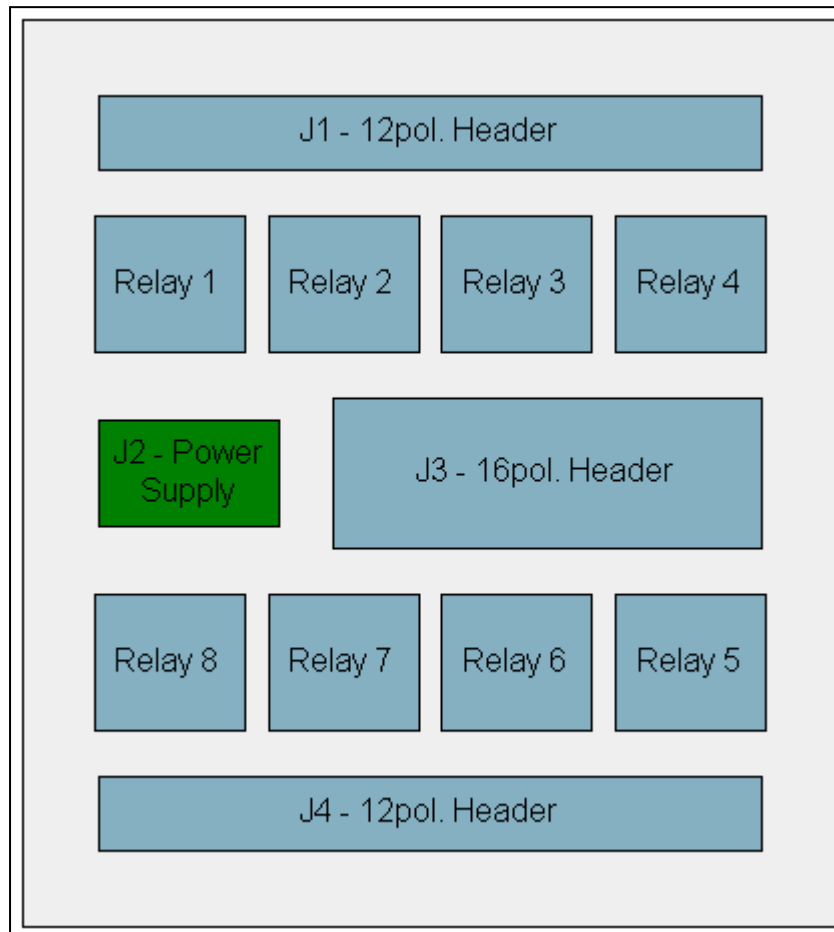
### **3.1. General technical data**

#### **3.1.1. Technical data**

- Supply voltage: 24V DC
- 8\*Relay outputs (changeover contact)
- Maximum switching voltage: 40V
- Maximum switching current: 10A AC / 8A DC
- Potential-free switching inputs (no control voltage required)
- The maximum coil current of the changeover relays is 8mA, the voltage is 24V.
- Pluggable terminal strips for connection wiring
- Top-hat rail mounting
- Operating temperature: +10°C ... +50°C
- Dimensions: 85mm x 126mm x 43mm (LxWxH)

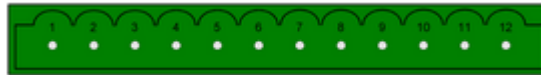
## 3.2. Overview pictures

### 3.2.1. Overview image of a MOD-REL8\_10a



### 3.3. Pin assignments

#### 3.3.1. Pin assignment MOD-REL8\_10a



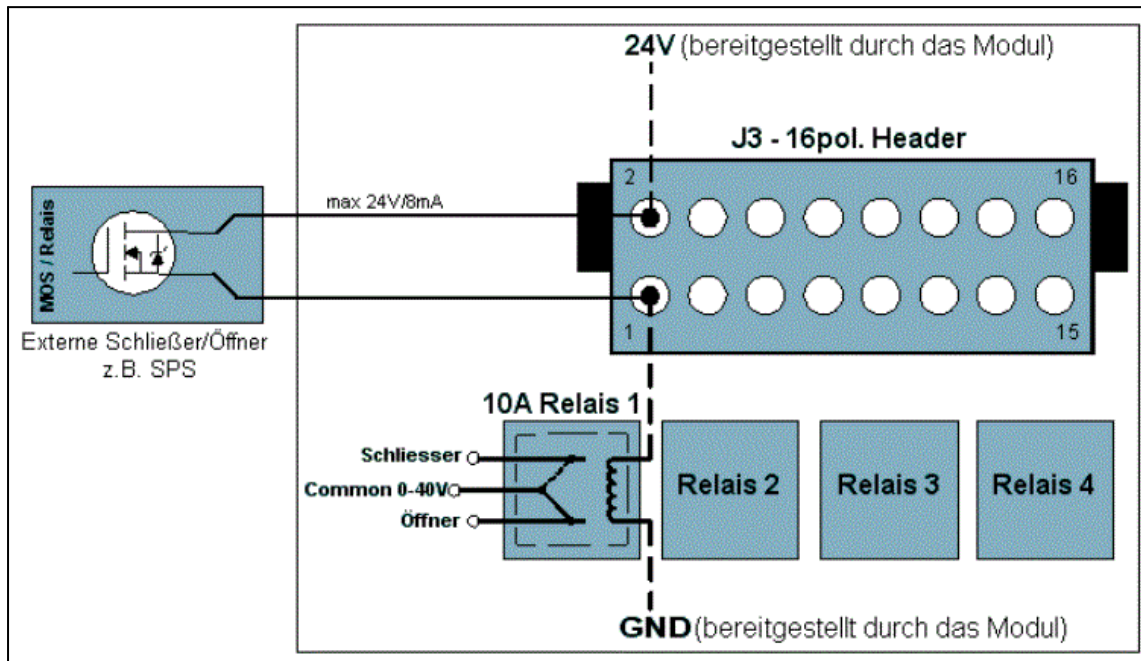
Pin	Description	Relais
1	Opener	Relais 1
2	Common	
3	Closer	
4	Opener	Relais 2
5	Common	
6	Closer	
7	Opener	Relais 3
8	Common	
9	Closer	
10	Opener	Relais 4
11	Common	
12	Closer	



Pin	Description	Relais
1	Opener	Relais 5
2	Common	
3	Closer	
4	Opener	Relais 6
5	Common	
6	Closer	
7	Opener	Relais 7
8	Common	
9	Closer	
10	Opener	Relais 8
11	Common	
12	Closer	

### 3.4. Connection wiring

#### 3.4.1. Connection wiring 16pin connector



The 16-pin connector J3 provides the coil contacts of the eight changeover relays. The changeover relay can be switched via any potential-free make/break contact.

**Pin assignment for 16pin connector J3:**

Port	Pin - J3
Coil relay	1 & 2
Coil relay 2	3 & 4
Coil relay 3	5 & 6
Coil relay 4	7 & 8
Coil relay 5	9 & 10
Coil relay 6	11 & 12
Coil relay 7	13 & 14
Coil relay 8	15 & 16

# Appendix



## **4. Appendix**

### **4.1. Contact / Support**

If you have any questions about the product or need assistance with commissioning, you can reach us at the following numbers:

#### **Support Software**

Tel. +49 (0) 22 32 / 50 40 8 – 20

#### **Support Hardware**

Tel. +49 (0) 22 32 / 50 40 8 – 30

#### **Support via E-mail**

[support@deditec.de](mailto:support@deditec.de)

### **4.2. Environment and disposal**

You can return the defective or obsolete product to us at the end of its service life. As a manufacturer and distributor of electronic assemblies, we will take care of the proper disposal for you in accordance with the applicable legal regulations. For this purpose, it is best to use our return form on the homepage:

[Return form](#)



### 4.3. Revisions

Rev 3.00	DEDITEC Design Update
Rev 2.00	Index added
Rev 1.00	First instruction

#### **4.4. Copyrights and trademarks**

Linux is a registered trademark of Linus Torvalds.

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