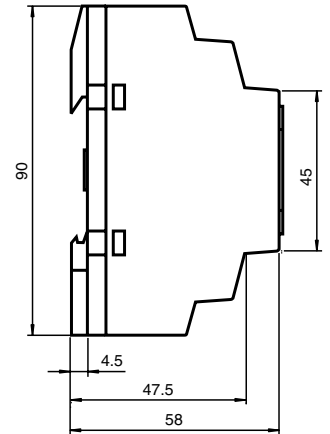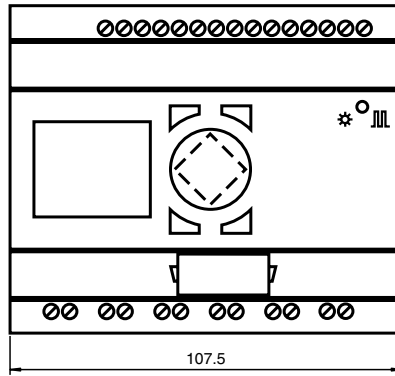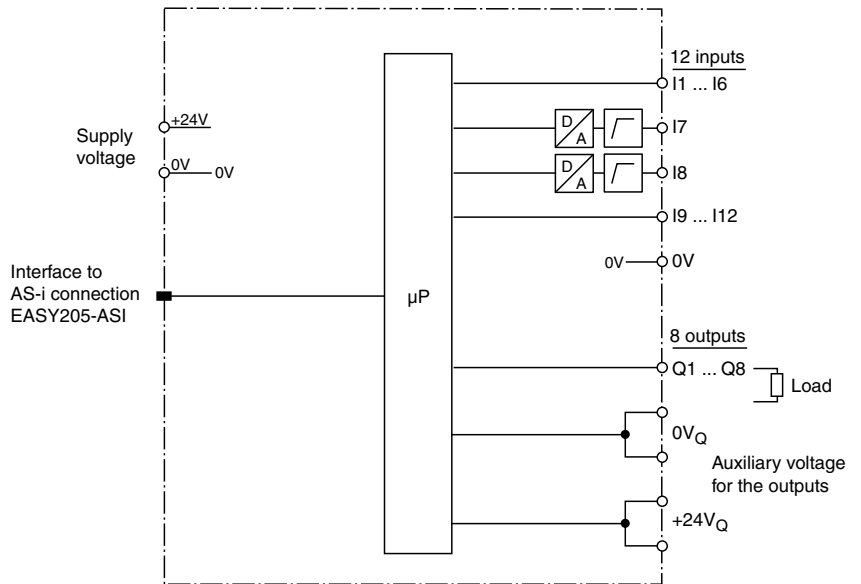# Control relay

Dimensions

Electrical connection

Model Number

EASY 621-DC-TC

Control relay

Features

- 12 digital inputs of which 2 can be used in analogue mode
- 8 transistor outputs
- 4-line LCD display
- Control panel/keys
- Real-time clock/time relay
- Interface for transfer to memory card or PC
- Expandable with I/O module EASY205 ASI for intelligent AS-i slave

Indicating / Operating means

1 DEL button
2 ALT button
3 Cursor button
4 OK button
5 ESC button
6 LC-display
7 Socket for PC-interface (with cover)

Control relay

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EASY 621-DC-TC

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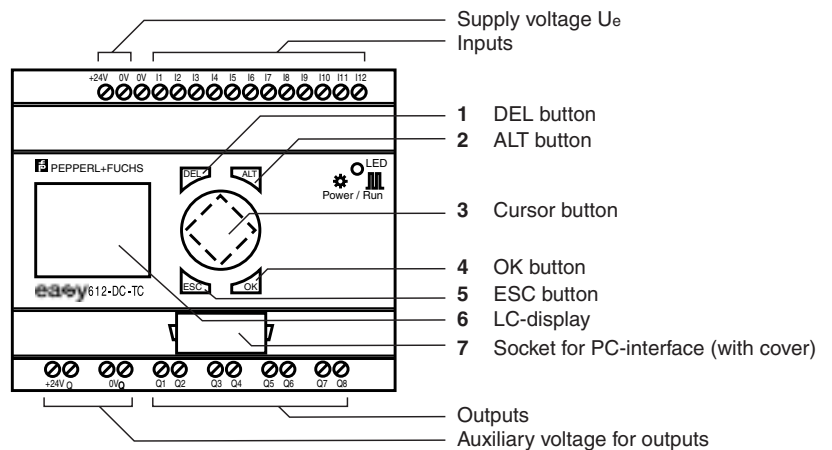
Technical data

Electrical specifications

Rated operational voltage	U_e	20,4 ... 28,8 V DC
Rated operational current	I_e	approx. 140 mA at 24 V DC
Power loss		approx. 3,5 W at 24 V DC

Input

Number/Type	12 digital inputs 2 inputs (I7, I8) can be used as analogue inputs
Switching point	state 0: < 5.0 V DC (I1-I12) state 1: > 15.0 V DC (I1-I6, I9-I12) state 1: > 8.0 V DC (I7, I8)
Input current	at state 1: I1-I6: 3.3 mA (at 24 V DC) I7, I8: 2.2 mA (at 24 V DC) I9-I12: 3.3 mA (at 24 V DC)
Signal delay	Standard adjustment: 0.2 ñ 0.4 ms Time delay can be set to 20 ms to debounce input signals

Input 1

Number/Type	2 analogue inputs (I7 and I8 alternative)
Signal voltage	0 ... 10 V DC
Resolution	0,1 V
Impedance	11,2 kOhm

Output

Number/Type	8 electronic outputs, protected against short-circuit/reverse polarity
Short circuit protection/overload	Evaluation takes place with diagnostic input I15, I16
Current	at state 0: 18 ... 32 mA at state 1: 22 ... 44 mA
Voltage	20.4 V DC ... 28.8 V DC

Electrical isolation

Input/Output	safe electrical isolation per EN 50178
Output/Power supply	available

Ambient conditions

Ambient temperature	-25 ... 55 °C (248 ... 328 K)
Storage temperature	-40 ... 70 °C (233 ... 343 K)

Mechanical specifications

Core cross-section	one wire 0.2 ... 4 mm^2
Protection degree	IP20 according to EN 60529
Mass	300 g
Mounting	DIN rail
Connection possibilities	6-pin connector (lateral) for AS-i connecting circuit EASY205-ASI

Notes

For operating the device you can use the front keys with following functions:
1. DEL button: Deletion of contacts / relays / connections / empty current path
2. ALT button: Indicate connections /
   changeover switch: Contact = N.O. or N.C. / insert current path
3. Cursor button: right, left, top, down
   select menu item
   Contacts, relays, select number
   P key on: Input P1 left-cursor
   Input P2 top-cursor
   Input P3 right-cursor
   Input P4 down-cursor
4. OK button: Sterp forward in menu, accept entry
5. ESC button: Take one step back in menu
   Menu, exit parameter function relay
   Exit without saving
6. LC-display: Inputs/outputs status indication
   Operating status
   Circuit diagram
   Display time
7. Socket for PC-interface (with cover)

Function

EASY 621-TC-DC is an electronic control relay with logic, time, counting and clock timing functions. It is designed for small, convenient control tasks, e. g. in machine and plant engineering. The circuit diagram is "wired" in the ladder diagram technique and directly given in the in the display.

The combinations of an EASY 205-ASI AS-Interface with the control relay provides an itelligent AS-i slave, which can perform extremely flexible, decentralised control tasks and information processing. So the relay remains autonomous: i. e. in the event of a bus failure, it can continue operating on its own.

The combination can be addressed via the master or the ddressing socket on the interface module, the exchange of information to the AS-i master is provided by the 4 inputs and the 4 outputs as well as the 4 bit parameters of the interface module.

Documentation

The documentation includes manuals in German and English. It is available on the Internet and in printed form as a CD-ROM on request.

Documentation

Handbuch EASY

Manual EASY

Kurzanleitung EASY

Training Guide EASY

Accessories

EASY-SOFT
Programming software

EASY-M-16K
flash memory

EASY-PC-CAB
cable

Matching system components

EASY205-ASI
AS-i connecting circuit

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