



Operating instructions Technical Parameters



multisiso D4-4RO-ISO Potentialfreies 4fach Relaisausgangsmodul



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System | english

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1 Function description relay output module multisio 1D4-4RO ISO

The hardware of the **multisio 1D4-4RO ISO** supports 4 potential free relay outputs, 5 LEDs and an 8-fold DIP switch.

The relay outputs serve to control contactors of bus devices or other systems.

The module can be accessed via a master device (multimax 3D6, multisio 5D6 or higher, or a computer with VE via multisys 3D2-ESBS) using the module bus interface. The master device has to configure the module.

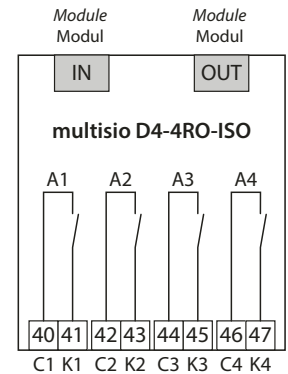
The operating voltage is supplied via the module bus interface.
The module cannot be used on its own.

2 Connection diagram for relay output module

Terminal assignment

- Terminal 40: Input relay 1 (A1)
- Terminal 41: Output relay 1 (A1)
- Terminal 42: Input relay 2 (A2)
- Terminal 43: Output relay 2 (A2)
- Terminal 44: Input relay 3 (A3)
- Terminal 45: Output relay 3 (A3)
- Terminal 46: Input relay 4 (A4)
- Terminal 47: Output relay 4 (A4)

IN / OUT: Module bus / supply voltage



NOTE

The module relay outputs are designed as potential free outputs.

3 Relay output module LED display

In KBR module bus scanning mode, all 4 output LEDs are flashing.
 In module detection mode, the output LEDs generate a running light.

The displays are:

- 4 Function of scan button
- LED1 for: Output relay 1 (A1) switched
- LED2 for: Output relay 2 (A2) switched
- LED3 for: Output relay 3 (A3) switched
- LED4 for: Output relay 4 (A4) switched
- Power LED: Operating voltage



4 Function of scan button

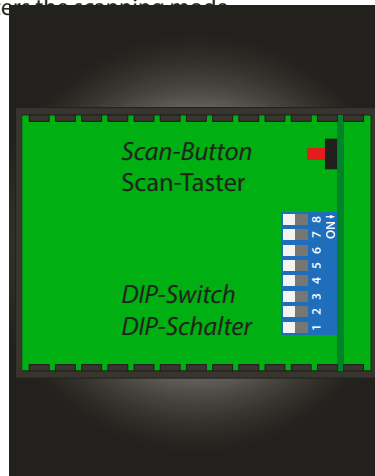


NOTE

If the scan button is pressed briefly, the module enters the scanning mode.

Switch setting illustrated:

- OFF = white
- ON = gray



5 Function of the DIP switches

5.1 Mode of operation

For every output, the multisio 1D4-4RO ISO differentiates between the operating modes „normal“ and „manual“. Switching is performed via the DIP switches 5 to 8.

The DIP switches are assigned to the outputs as follows:

- DIP switch 5 determines the operating mode of output 1
- DIP switch 6 determines the operating mode of output 2
- DIP switch 7 determines the operating mode of output 3
- DIP switch 8 determines the operating mode of output 4

If the DIP switch is set to Off, the respective output is in the normal operating mode. If the DIP switch is set to On, the respective output is in the manual operating mode

Switch setting illustrated:

- OFF = white
- ON = gray

Normal operating mode

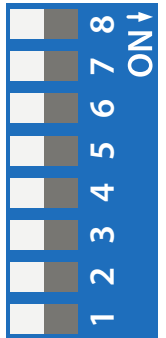
In the normal operating mode, the state created in the module is issued at the corresponding output

Manual operating mode

In the manual operating mode, the state of DIP switches 1 to 4 is issued at the corresponding output, instead of the state created in the module. The DIP switches are assigned to the outputs as follows.

- DIP switch 1 determines the state of output 1
- DIP switch 2 determines the state of output 2
- DIP switch 3 determines the state of output 3
- DIP switch 4 determines the state of output 4

If the DIP switch is set to Off, the output is passive / off. If the DIP switch is set to On, the output is active / on.



5.2 DIP switch settings

Mode of operation	State DIP		Explanation	
S5	Off	—	Output 1 = normal operating mode	
	On	S1	Off	Output 1 = manual operating mode passive / off
			On	Output 1 = manual operating mode active / on
S6	Off	—	Output 2 = normal operating mode	
	On	S2	Off	Output 2 = manual operating mode passive / off
			On	Output 2 = manual operating mode active / on
S7	Off	—	Output 3 = normal operating mode	
	On	S3	Off	Output 3 = manual operating mode passive / off
			On	Output 3 = manual operating mode active / on
S8	Off	—	Output 4 = normal operating mode	
	On	S4v	Off	Output 4 = manual operating mode passive / off
			On	Output 4 = manual operating mode active / on

6 Technical data

Power supply:	Via module bus	24 VDC / ca. 1.3 W
	Connection	Modular connector RJ-12:6P6C
Hardware outputs:	4 plug terminal, each 2 pole	—
	Terminals 40 to 47	potential free
	Contact capacity	500 VA each, 2 A, 250 V and 50/60 Hz
	Overvoltage category	CAT II
Module bus interface:	Serial interface	RS-485
	Module bus connection	RJ-12 for ready-made KBR system cable, max. length 30 m when placed accordingly
	Transmission speed	38400 Bps
	Bus protocol	KBR module bus
Display:	LED	4x message
		1x operation display
Control unit:	DIP switch	1x 8-fold, for manual operation
	Button	Scan button (module bus)
Mechanical data:		
Top hat rail device:	Housing measurements	90 x 70 x 61 mm (H x W x D)
	Mounting type	Wall mounting on DIN rail 7.5 mm deep, in accordance with DIN EN 50022
	Weight	approx.130 g
Standards and miscellaneous:		
Ambient conditions:	Standards	DIN EN 60721-3-3/A2: 1997-07; 3K5+3Z11; (IEC721-3-3; 3K5+3Z11)
	Operating temperature	-5 °C ... +55 °C
	Humidity	5 % ... 95 %, non-condensing
	Storage temperature	-25 °C ... +70 °C
Electrical safety:	Standards	DIN EN 61010-1/A2: 2001 + B1: 2002-11 + B2: 2004-1; (IEC1010-1/A2)
	Mode of protection	IP20 in accordance with DIN EN 40050 part 9:1993-05
	Electromagnetic compatibility	DIN EN 61000-6-3: 2001 + A11: 2004; (IEC61000-6-3) DIN EN 61000-6-2: 2001 (IEC61000-6-2)

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