Product Datasheet - Technical Specifications

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OR8/R8

Optocoupler/Relay cards

Connect digital signals.
Quite simple.

The optocoupler and relay boards OR8 and R8 are ideal to monitor and control digital states. The digital inputs and outputs can be connected directly via a screw-clamp connection.

8 optocoupler inputs (OR8).
8 relay outputs (OR8, R8).

The eight optocouplers on the OR8 convert digital inputs in the voltage range of 5..30V into TTL signals. Via relays, the OR8 and R8 switch eight control lines (TTL) with up to 6A.

Clearly safe.

Due to the galvanic isolation of the channels from each other and from the data acquisition and control system, the whole system is perfectly protected.

Current states.

Eight LEDs each dedicated to the inputs and outputs signalize if a channel is high or low.
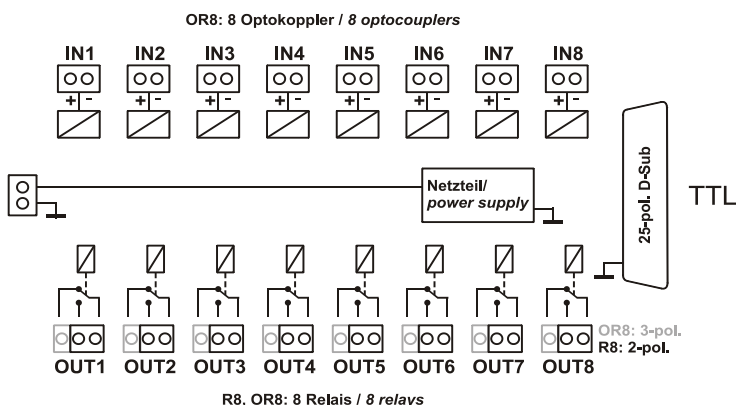
Well supplied.

The R8 is operated with 5V. The OR8 is powered with 9-40V but can also be configured to 5V supply. The supply voltage is also connected via screw-clamp terminals.

DIN rail mounting.

The optocoupler and relay boards are suitable for DIN rail mounting. A DIN rail carrier (ZU-EW) with bracket is already included with the delivery of the OR8. It can be ordered as accessory for the R8.

Compatibility.

Particularly simple is the connection to the digital I/O interface USB-PIO as only a 25-pin D-Sub extension cable is needed for connecting.

OR8: 8 Optokoppler / *8 optocouplers*

IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8

Netzteil/ *power supply*

25-pol. D-Sub — TTL

OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8

OR8: 3-pol. R8: 2-pol.

R8, OR8: 8 Relais / *8 relays*

Technical data (typical at 20°C, after 5min., +5V supply)

- Electrical data

Power supply (OR8):	9..40V DC (ex works, solder jumper open) or +5V DC (solder jumper closed), ±5%, max. 4W
Power supply (R8):	+5V DC, ±5%, max. 0.7A DC, max. 3.5W
Input voltage:	5..30V
Input current (OR8):	max. 17mA; response time of the optocouplers <1ms
Relay data (OR8, R8):	max. current: 6A DC; response time: 10ms; live period: 100000 cycles

- General data

Temperature range:	operating temp. 0..70□C, storage temp. -25..70□C
Relative humidity:	0-90% (not condensing)
CE standards:	EN61000-6-1, EN61000-6-3, EN61010-1
ElektroG // ear registration:	RoHS and WEEE compliant // WEEE Reg.-No. DE75472248
Dimensions (L x W x H):	OR8: 167mm x 105mm x 33mm; R8:160mm x 100mm x 20mm
Available accessories (optional):	DIN rail set ZU-EW (OR8: included with delivery), connecting cable ZUKA25, waterproof housing ZU-PBOX-PG, ZU-PBOX-LAN
Warranty:	2 years from date of purchase at bmcm, claims for damages resulting from improper use excluded