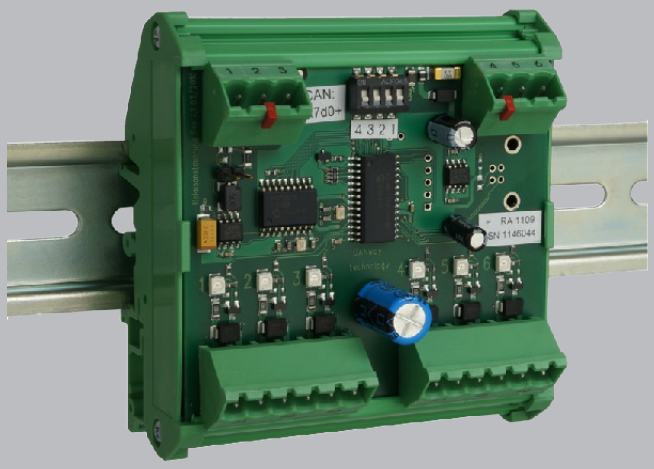
CW-321

POWER RELAY-INTERFACE



The CW-321 facilitates controlling and switching up to 6 high-performance relays via a CAN bus. Desigend as modular unit in top-hat rail housing (45 mm to DIN), the module offers a fast and simple solution to automate switching higher currents, for example in component tests on HiL test benches as well as in a wide range of different tasks in automation technology.

The selected state encoding of the relay in the CAN messages allows both targeted actuation of a single relay channel as well as the simultaneous switching of several relays.

The CW-321 is designed to directly control high-performance relays in vehicles as a standard function. It is possible to implement customer-specific modifications for other relay versions at any time.

In conjunction with the bus technology modules CW-101 (CAN-USB-Interface) and CW-102 (CAN-Ethernet-Interface) it is possible to connect the CW-321 directly to a PC. Control functions are performed with the aid of the software CW-901.

PERFORMANCE CHARACTERISTICS

- **Up to 6 channels to control power relays**
- **Control via CAN bus**
- **Selective control of a single channel or simultaneous control of several channels possible**
- **Includes high-power vehicle relays (12 V / 70 A or 24 V / 30 A), base-mounted on top-hat rail**
- **Quick and easy to install, suitable for top-hat rail (45 mm to DIN)**
- **Easy to extend and scale channels**

CANWAY
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POWER RELAY

Number	6
Switching Current	30 A or 70 A (optional assembly of customized relay)
Switching power (max.)	1800 mW
Switching cycles	≥ 100.000
Response time / fall time	≤10 ms (at 20 °C)
Galvanic separation	Relay channels

CAN-INTERFACE

Number	1
Type	ISO 11898-2 (Highspeed) CAN-protocol version 2.0 A and 2.0, supports SAE J1939 (29-bit-identifier)
Data rate	20, 100, 125, 250, 500, 800 and 1000 kbit/s
Termination	120 Ohm, optional activation via jumper

POWER SUPPLY

Supply voltage	9 VDC to 16 VDC
Current consumption	50 mA at 12 VDC (no relay switched on) 1 A at 12 VDC (all relays switched on)

ENVIRONMENTAL CONDITIONS

Temperature range operation	-20 °C to +65 °C
Temperature range storage	-20 °C to +85 °C
Relative humidity	35 % to 85 %, non codensing

GENERAL INFORMATION

Housing	45 mm DIN-top-hat rail housing
Dimensions (LxWxH)	285 mm x 70 mm x 85 mm
Weight	109 g

FURTHER DEVICES CW-300 SERIES

CW-301 CAN-controlled Power Supply	CW-326 Failure Injection Unit
CW-310 Wheel Speed Pulse Conditioning	CW-327 A/D-Converter
CW-311 Wheel Speed Unit Simulation	CW-328 Current Measurement Interface
CW-322 20 Fold Signal Relay Interface	CW-329 Relay Control
CW-323 D/A-Converter	CW-390 High Load Relay up to 35 A
CW-324 Current Sink	CW-391 High Load Relay up to 70 A
CW-325 Bus and signal multiplexer	CW-392 High Load Relay with integrated current measurement

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