

CW-301

CAN-CONTROLLED POWER SUPPLY



The module CW-301 makes it possible to switch power relays by means of CAN messages and manual switches. For instance, it can be used to switch on the power supply to mobile measuring equipment, by means of a specific CAN bus signal (e.g., KL15). Rather the CW-301 can used to charge measurement equipment batteries within defined vehicle states.

The CW-301 is equipped with three switchable outputs and can be operated with a maximum switching current of 30 A. Through the thermal circuit breakers (10 A) the manual and CAN controlled circuits are protected.

It is possible to configure a wide range of different settings via the CAN protocol, such as the baud rate, CAN message, sleep mode and follow-on time.

PERFORMANCE CHARACTERISTICS

- 3 voltage outputs 12/24 VDC
- 10 A switching current per voltage output
- Protection by thermal circuit-breakers
- Manual or CAN controlled outputs
- CAN message/signal and switching condition are user selectable
- Low current consumption in sleep mode
- Adjustable follow-on time up to 1 hour

VOLTAGE OUTPUTS

Number	3
Nominal voltage	12 VDC or 24 VDC
Switching current	10 A per voltage output (protection though thermal circuit breaker)
Switching power max.	120 W per channel at 12 VDC
Switching cycles	≥ 100.000
Response time / fall time	≤10 ms (at 20 °C)
Connector	Socket for 4mm connector (banana jack)

CAN-INTERFACE

Number	1
Type	ISO 11898-2 (highspeed) CAN-protocol version 2.0 A and 2.0 B, supports SAE J1939 (29-bit-identifier)
Data rate	10, 50, 100, 125, 250, 500, 800 and 1000 kBit/s configurable via CAN-bus
Termination	120 Ω, optional
Connector	D-Sub9-connector

POWER SUPPLY

Supply Voltage	9 VDC to 30 VDC
Current Consumption	30 mA at 12 VDC (unswitched) 510 mA at 12 VDC (switched on, without load current)
Connector	LEMO ECG.3B.302

ENVIRONMENTAL CONDITIONS

Temperature range operation	-20 °C to + 70 °C
Temperature range storage	-20 °C to +85 °C
Relative humidity	35 % to 85 %, non-condensing
Protection class	IP40

GENERAL INFORMATION

Housing	HF-Tubus
Dimensions (LxWxH)	71 mm x 131 mm x 171 mm
Weight	1100 g

FURTHER DEVICES CW-300 SERIES

CW-310 Wheel Speed Pulse Conditioning	CW-326 Failure Injection Unit
CW-311 Wheel Speed Unit Simulation	CW-327 A/D-Converter
CW-321 Power Relay	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

www.canway.de · mail@canway.de · Tel.: +49 2532 95602-0

CANWAY TECHNOLOGY GMBH · Graf-Zeppelin-Ring 13 · 48346 Ostbevern

© CANWAY · Technical modifications and errors reserved. Certain company names and products mentioned here may be trademarks of their respective owners.