



## PWM202 Pulse Width Modulation Module

The pulse width modulation module PWM202 has 2 power outputs for direct activation of inductive or resistive load, such as DC motors, immersion coils, etc. with pulse width modulated signals.

### Features

- 2 pulse-width modulated output channels
- 2 shielded DSub connectors for output channels
- Status indication: LED (green) per output
- Optional high-power or TTL output signal
- Monitoring of the load current
- Monitoring of the external supply voltage
- Monitoring of the internal temperature

Part type designation	Part number
PWM202	00011056-00

**PWM202**

Outputs	
Quantity	2
Status indication LEDs	RDY yellow, OUT-1 / OUT-2 green
Output voltage	18 V to 48 V (= $U_{\text{external}}$ ) or TTL level
Output current	0 A to 2 A at $f \leq 40$ kHz and $U_{\text{out}} \leq 48$ V ( $T_A = +60$ °C)
Frequency	Channel 1: 3 Hz to 40 kHz, adjustable Channel 2: 155 Hz to 40 kHz, adjustable
Duty cycle	0 % to 100 % individually adjustable for each channel
Resolution channel 1	16 bit, edge aligned or center aligned
Resolution channel 2	10 bit, edge aligned
Galvanic isolation from the system	500 V
Load resistor	Typically 20 $\Omega$
External power supply	
Voltage range	18 V DC to 48 V DC
Power consumption	Max. 10 W + load
Reverse polarity protection	Yes
Monitoring	
External supply voltage	Yes, power fail signal + interrupt
Overvoltage	Yes
Undervoltage	Yes
Overcurrent (channel)	Yes
Approvals/Certificates	
General	CE, UKCA, cULus
Environmental conditions	
Operating temperature	-30 °C to +60 °C
Relative humidity, operation	5 % to 95 % noncondensing
Storage temperature	-40 °C to +85 °C
Relative humidity, storage	5 % to 95 % with condensation
Pollution degree acc. IEC 60664-1	2 (noncondensing)

**Order data**

Part type designation	Part number	Description
PWM202	00011056-00	Motor control module; for DC motors and inductive actuators; 2 channels per 2 A/48 V or TTL; up to 40 kHz PWM; actuator or current regulation; isolated

**Accessories**

Part type designation	Part number	Description
KZ 51/03 B	00012052-00	Terminal 03 pin spacing 5.08; cage clamps with labeling strips