

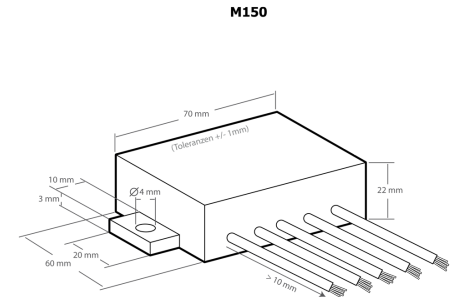
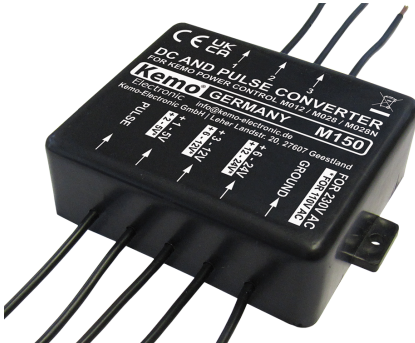
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**M150 - DC + pulse converter**

By connecting this module in series, it is possible to control our power control modules (230 V/AC or 110 V/AC) M012 + M028 + M028N (from microcomputers or PCs) with a DC voltage or a pulse width modulation. This module is connected at the spot of the potentiometer. Galvanic separation of the control circuit via optocouplers. Control may be done optionally (at 230 V/AC) 1 - 5 V/DC, 3 - 12 V/DC, 6 - 24 V/DC. Or TTL rectangular pulses 5 V/DC, 1 - 10 kHz pulse width 10 - 90% PWM (Puls width modulation). Regulation is done by changing the pulse width.

The DC and pulse converter module M150 is an ideal controlling module for:

M012 - Power Control 110 / 240 V/AC, 1200 VA  
M028 - Power control 110 - 240 V/AC, 2600 VA  
M028N - Power control 110 - 240 V/AC, 4000 VA

**Technical Data:**

Operating voltage: 110 V/AC or 230 V/AC (is led to the dimmer module via the connections)

Output: The module delivers a control voltage for the potentiometer input of the dimmer modules M012, M028 or M028N (Page 46)

Input: The module M150 may either be controlled with control DC voltages of 1 - 5 V/DC or 3 - 12 V/DC or 6 - 24 V/DC. Or with TTL pulses with a pulse width modulation

Frequency: between 1 - 10 kHz

Impulse voltage: approx. 5 V/DC, pulse width 10 - 90% PWM. The power is adjusted with the pulse width 10 - 90%

Input resistances: control input 1 - 5 V/DC >1,4 k, control input 3 - 12 V/DC >4,1 k, control input 6 - 24 V/DC >9,1 k

TTL pulse input: >1,1 k

Galvanic separation: via an optocoupler between the control inputs and the signal output towards the power control module

Dimensions: approx. 70 x 60 x 23 mm (without fastening straps)