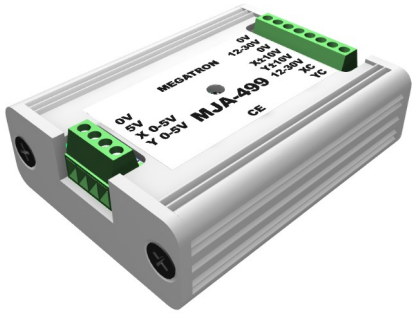
MJA-499

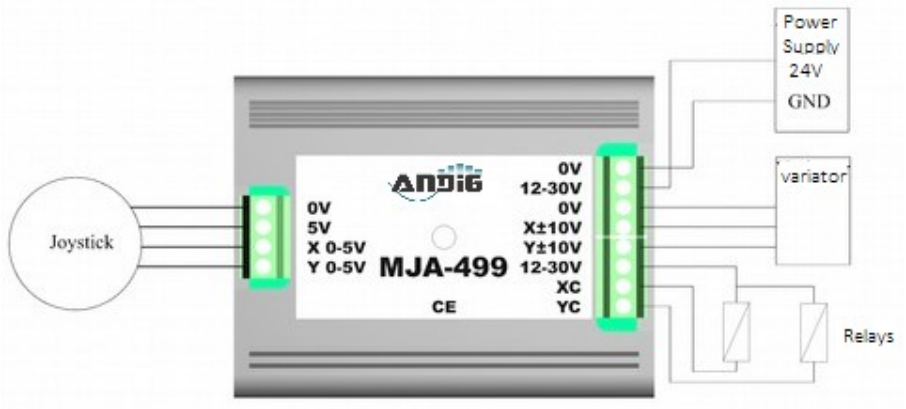
-10~0~+10V CONVERTER

Hall-effect joysticks should generally be supplied with +5V and have a 0-5V output. Industrial applications often require 24V and a ±10V control voltage. The MJA-499 board achieves this conversion. It allows a 2 axes joystick to be supplied directly with a voltage between 12 and 30VDC with an output of ±10V. It also provides a center detection signal. The center detection output is an open collector transistor equipped with a 10k resistor on + : it allows to directly control a relay. The relay is active (signal = 0V) when the handle leaves the center.



- **Power supply 24→ 5V**
- **Converter 5V → ±10V**
- **Center detection**
- **2 axes**

Specifications	
Power supply	12-30 VDC
Voltage supplied to the joystick	5 V±1 %
Max current consumption supplied to the joystick	30 mA
Control voltage X Y	0-5 V
Output voltage X Y	-10 ~0~ +10V
Max output voltage for detection center	30 V
Max current per centre detection output	0.25 A
Amplitude of center detection	4 % of handle travel
Reverse polarity protection	Yes
Housing	Anodised aluminium
Dimensions	54x56x41 mm
Connection	Screw terminal block with 2.54 pitch



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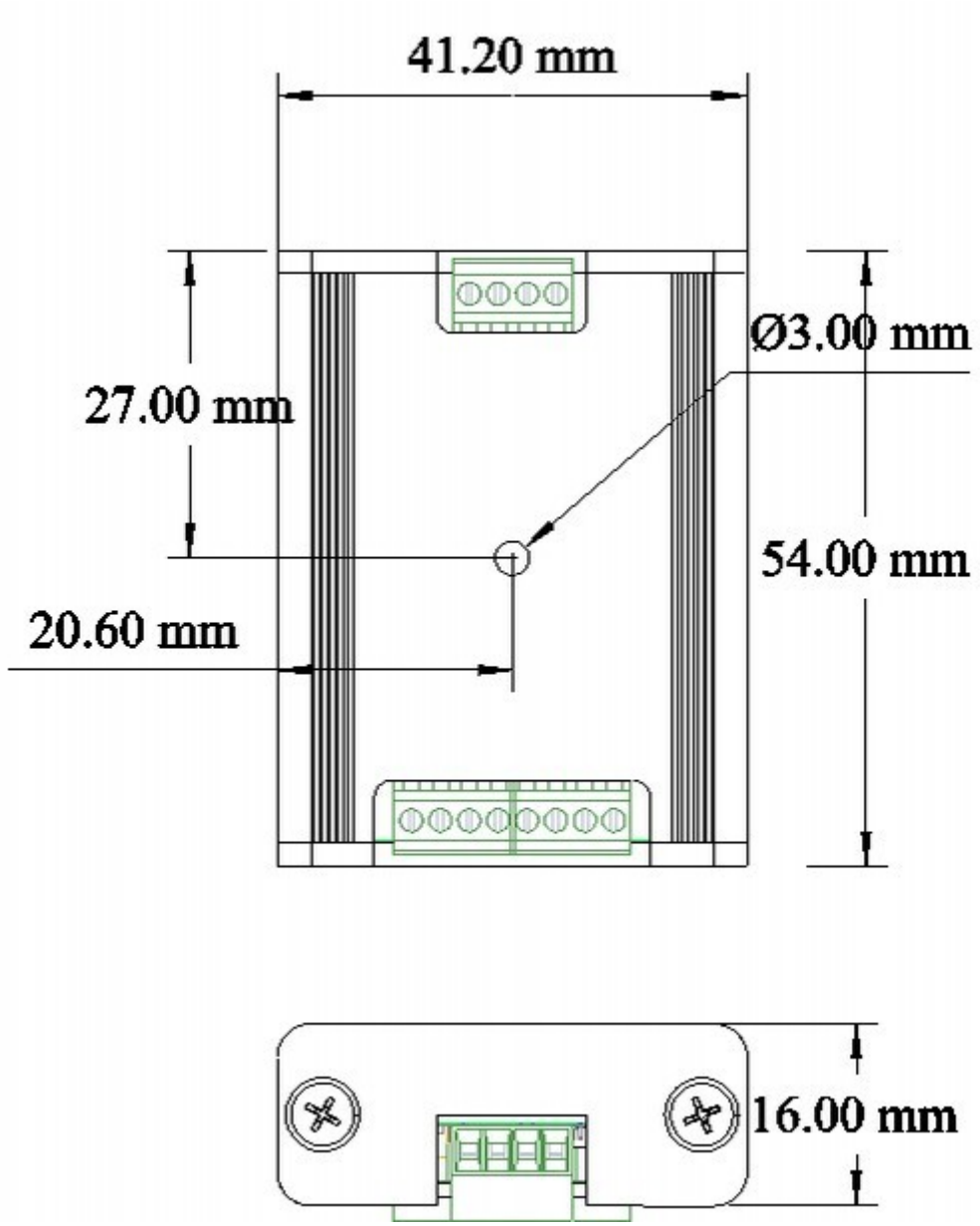

The 3mm diameter central hole is available for fixing by screw or nylon collar.

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