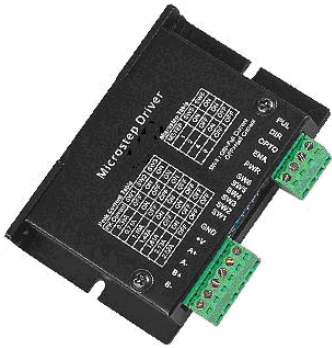


D25 Micro-stepping Driver



Output current 0.39 ~ 2.5 AMP, Supply voltage (DC) 12 ~ 24 VDC
Pulse input frequency 0 ~ 100 KHZ, Isolation resistance Min 500 M Ω

Control Signal Connector P1 pins

Pin Function	Details
PUL	Pulse signal: in single pulse (PUL/DIR) mode, this input represents pulse signal, effective for each upward-rising edge; in double pulse mode (CW/CCW) this input represents clockwise (CW) pulse. For reliable response, pulse width should be longer than 3 μ s.
DIR	DIR signal: in PUL/DIR mode, this signal has low/high voltage levels, representing two directions of motor rotation; in CW/CCW mode (set by inside jumper J2), this signal is counter-clock (CCW) pulse, effective on each rising edge. For reliable response, direction signal should be sent to driver 5 μ s before the first pulse of a motion direction reversal.
OPTO	Photo-coupler driving power supply.
ENA	Enable signal: this signal is used for enabling/disabling the driver. High level for enabling the driver and low level for disabling the driver. Usually left unconnected (enabled).

Power connector P2 pins

Pin Function	Details
GND	DC power ground
+V	DC power supply, +12VDC – +24VDC, Including voltage fluctuation and EMF voltage.
Phase A	Motor coil A (leads A+ and A-)
Phase B	Motor coil B (leads B+ and B-)

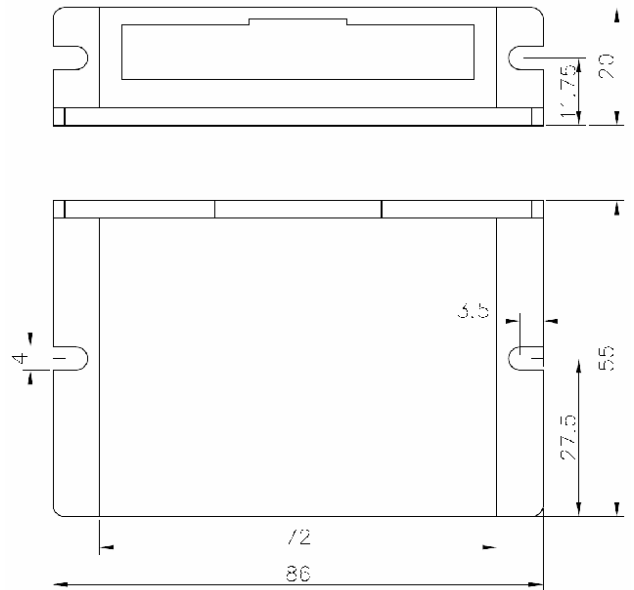
Micro-step resolution is specified by 5, 6, DIP switches

Micro-step	steps/rev.(1.8°/rev)	SW5	SW6
1	200	ON	ON
2	400	OFF	ON
4	800	ON	OFF
8	1600	OFF	OFF

Current Setting

Peak Current (A)	SW1	SW2	SW3
0.39	OFF	ON	ON
0.71	ON	OFF	ON
1.10	OFF	OFF	ON
1.42	ON	ON	OFF
1.81	OFF	ON	OFF
2.13	ON	OFF	OFF
2.52	OFF	OFF	OFF

Mechanical Specifications (unit=mm, 1 inch=25.4 mm)



Connection diagram

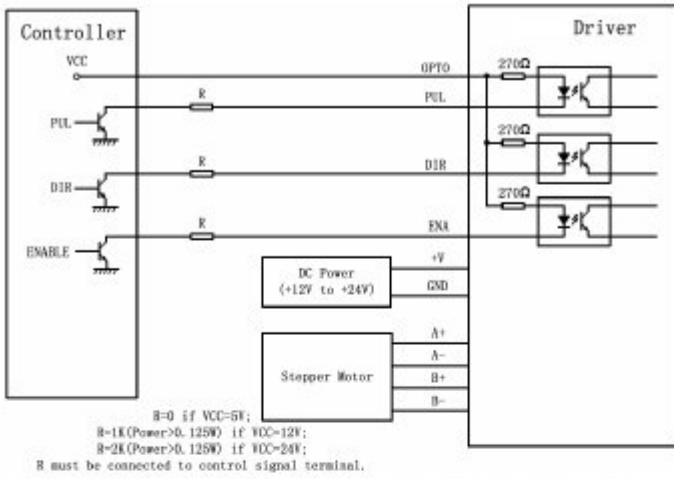
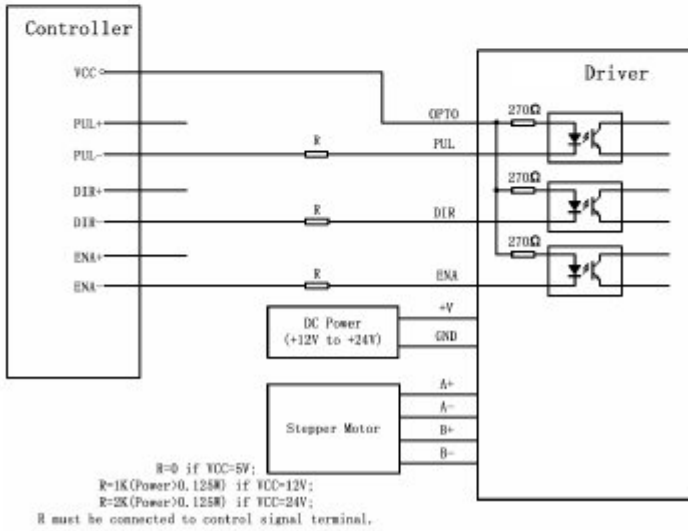


Figure 3: Typical connection with open-collector controller



WWW