CDIM
Control Devices Interface Module
(Potentiometer Version)

The CDIM Electronic Interface Module is designed to work with any Penny and Giles, proportional output, potentiometer joystick. The CDIM is designed to buffer the output signal of the joystick. It has a regulated 5V supply to the joystick, has an additional 2.5V reference voltage for centre tap stabilization. It's wiper current draw will be in a magnitude of nano-amps offering very high input impedance. The device has over current polarity and over voltage protection.

Each Control Devices module can handle 2 analogue joystick channels. The device also provides over current protection for the directional track switches for the joystick.

MECHANICAL

Dimension	30mm x 42mm x 113mm
Case Material	ABS Plastic
Weight	100g

ELECTRICAL

Dielectric Strength	2500V
Insulation Resistance	10 MΩ
Supply Voltage	+8Vdc to +30Vdc
Current Consumption	40mA
Excitation Voltage to joystick	+5Vdc
Input Impedance of Input from joystick	>1 MΩ
Over Current Protection	Yes - Self Recovery Fuse
Over Voltage Protection	Yes - TVS Diode
Polarity Protection	Yes – Diode
Output Type	Current, Voltage, PWM, USB 2.0, CANbus

ENVIRONMENTAL

Shock	TBA
Vibration	TBA
Ingress Protection	IP40
Operating Temperature	-40°C to +85°C
EMC	TBA

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Page **1** of **2**

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CONTACT ENGINEERING TEAM FOR OPTIONS

- C = CUSTOM VALUES CDIM-A-PPV-C-XXXX-XXXX-XXXX
- S = STANDARD VALUES CDIM-A-PPV-S-XXXX-XXXX-XXXX

- P100-0000-P100 = LO SIDE +10V, MID POINT 0V, HI POINT +10mA
- P050-0000-P050 = LO SIDE +5V, MID POINT 0V, HI POINT +5V
- P120-0000-P120 = LO SIDE +12V, MID POINT 0V, HI POINT +12V
- P150-0000-P150 = LO SIDE +15V, MID POINT 0V, HI POINT +15V
- 0000-P050-P100 = LO SIDE 0V, MID POINT +5V, HI POINT +10V
- 0000-P025-P050 = LO SIDE 0V, MID POINT 2.5V, HI POINT +5V
- 0000-P600-P120 = LO SIDE +15V, MID POINT 0V, HI POINT +15V
- 0000-P040-P080 = LO SIDE 0V, MID POINT +4V, HI POINT +8V

PPV = + VOLTAGE CDIM-A-PPV-X

CONTACT ENGINEERING TEAM FOR OPTIONS

- C = CUSTOM VALUES CDIM-A-PNV-C-XXXX-XXXX-XXXX
- S = STANDARD VALUES CDIM-A-PNV-S-XXXX-XXXX-XXXX

- N100-0000-P100 = LO SIDE -10V, MID POINT 0V, HI POINT +10mA
- N050-0000-P050 = LO SIDE -5V, MID POINT 0V, HI POINT +5V
- N120-0000-P120 = LO SIDE -12V, MID POINT 0V, HI POINT +12V
- N150-0000-P150 = LO SIDE -15V, MID POINT 0V, HI POINT +15V

PNV = ± VOLTAGE CDIM-A-PNV-X

CONTACT ENGINEERING TEAM FOR OPTIONS

- C = CUSTOM VALUES CDIM-A-PWM-C-XXXX
- S = STANDARD VALUES CDIM-A-PWM-S-XXXX

- 010K = 10kHz CDIM-A-PWM-S-010K
- 1050 = 105Hz CDIM-A-PWM-S-1050
- 0330 = 33Hz CDIM-A-PWM-S-0330

PWM = PWM CDIM-A-PWM-X

CONTACT ENGINEERING TEAM FOR OPTIONS

- C = CUSTOM VALUES CDIM-A-CUR-C-XXXX-XXXX-XXXX
- S = STANDARD VALUES CDIM-A-CUR-S-XXXX-XXXX-XXXX

- 0040-0120-0200 = LO SIDE 4mA, MID POINT 12mA, HI POINT 20mA
- 0200-0040-0200 = LO SIDE 20mA, MID POINT 4mA, HI POINT 20mA

CUR = CURRENT CDIM-A-CUR-X

A = ANALOGUE CDIM-A-XXX

CDIM-X

D = DIGITAL CDIM-D-XXX

- 485 = RS485 CDIM-D-485
- USB = USB 2.0 D CDIM-D-USB
- CAN = CANbus CDIM-D-CAN-XXXXX

- COPEN = CANopen CDIM-D-CAN-COPEN
- J1939 = CAN J1939 CDIM-D-CAN-J1939

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Page **2** of **2**

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