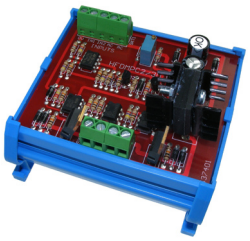
Dual Phase Cut Module IOPC2

Description

The IOPC2 converts two 0-10V dc Input Signals to drive two separate 0-20V 50Hz phase-cut outputs, at 30VA per channel for the control of small valve or damper actuators. The IOPC2 features opto-isolation, is powered from 24V ac (with a common connection to input signal) and has Rising Clamp Screw Terminals. The output from the IOPC2 can be boosted to 60VA by using two IOPCA1, 1 per channel.

Features

- 2 x 20V 30VA Phase Cut Outputs
- 2 x 0-10Vdc Inputs
- Opto Isolated
- High Quality Rising Clamp Terminals
- DIN Rail Mounting (TS35)
- Optional 60VA Amplifier Module



Technical Specification

IOPC2

Input Signal:	2 x 0-10Vdc
Output Signal:	2 x 20V phase cut - 30VA per channel
Power Supply:	24Vac (common to 0-10Vdc input)
Terminals:	Rising Clamp for 0.5-2.5mm2 Cable
LED Indicators:	ON when Power on
Ambient Temp.	Range: 0 to 50'C
Dimensions:	78mm(w) x 92.5mm(h) x 55mm (approx.)

IOPCA1

Input Signal:	20V Phase Cut from AX-PCM-2-30
Output Signal:	0-20V Phase Cut - 60VA
Power Supply:	24Vac
Terminals:	Rising Clamp for 0.5-2.5mm2 Cable
LED Indicators:	ON when Power on
Ambient Temp.	Range: 0 to 50'C
Dimensions:	47mm(w) x 92.5mm(h) x 50mm (approx.)

Order Codes

IOPC2	Dual Phase Cut Module
IOPCA1	60VA Amplifier Module

Installation and Configuration

IOPC2

NB:

- The transformer used to supply the 24V ac should be dedicated solely to the IOPC2. The transformer secondary must not have either end connected to 0V nor to Earth. If the transformer secondary is earthed, and the actuator is also earthed, the IOPC2 may be permanently damaged.
- The 24Vac supply must be rated to supply the full phase-cut output load.
- The IOPC2 is not protected against short circuits - take suitable precautions when wiring. All connections should be made with the power disconnected.

IOPC2

Connections are clearly marked on the pcb, a pair of 24Vac feedthrough terminals are provided as an aid to installation. NB: There is a heatsink fitted on this pcb, other components may also get warm; for this reason the IOPCA1 must be mounted in such a manner as to ensure free air circulation to provide adequate cooling. The IOPCA1is NOT protected against short circuits - care must be taken during wiring and suitable external fusing should be fitted. All connections should be made with the power disconnected.

E.C. Products Limited - Head Office
EC House, Amberley Way, Hounslow
Middlesex, TW4 6BH, United Kingdom
Tel: +44 (0)20 8569 4100 **Fax:** +44 (0)20 8569 4111

Wiring

Input Terminals

0V Common 0V for 0-10V dc Control Signals

IN1 Channel 1 0-10Vdc Control Signal

IN2 Channel 2 0-10Vdc Control Signal

AC 24Vac Common (See Notes 1,2 & 3 above)

AC 24Vac (See Notes 1,2 & 3 above)

Output Terminals - Note Polarity!

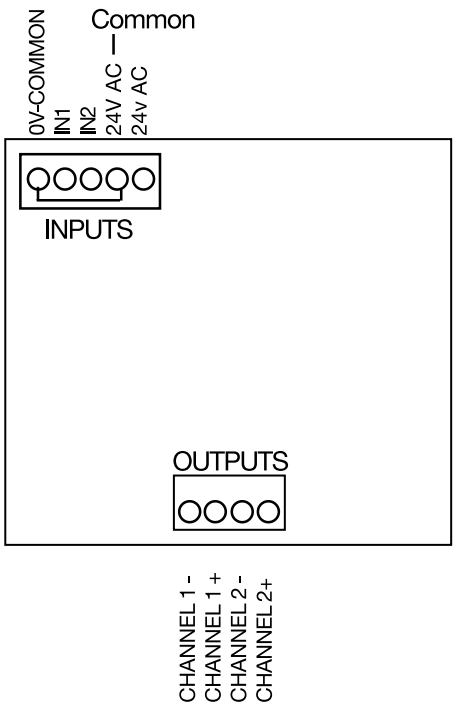
Output 1- Channel 1 Phase-cut Output

Output 1+ Channel 1 Phase-cut Output

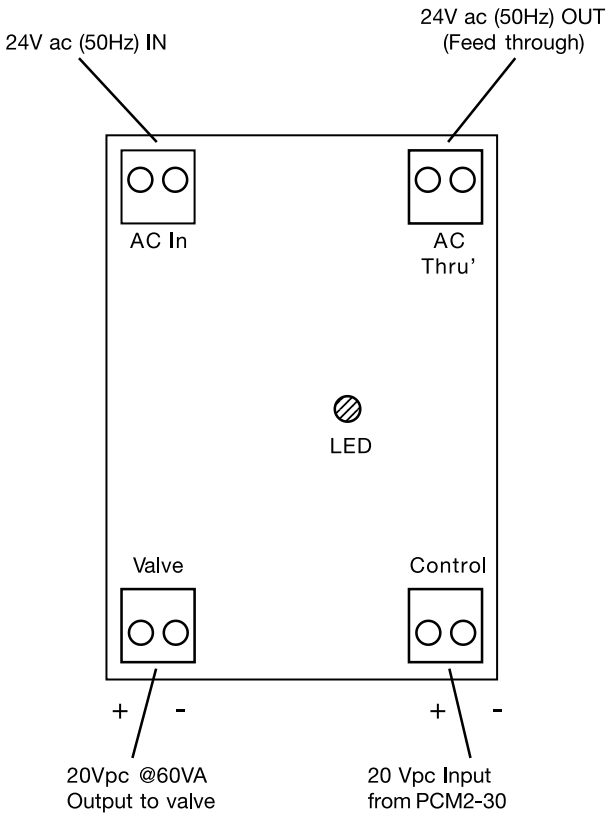
Output 2- Channel 2 Phase-cut Output

Output 2+ Channel 2 Phase-cut Output

IOPC2:



IOPCA1:



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