

Description of Option:

This option gives the iPCE-2 Controller the ability to output both position values simultaneously. Outputs 1 through 12 are for transducer 1, outputs 13-24 are for transducer 2. Maximum position resolution, (Scale Factor parameter) is limited to 1000 counts per turn.

Keyboard Changes and Additions

There are no keyboard changes or additions with this option.

Programming Changes and Additions

The only programming change involves the Scale Factor. Maximum Scale Factor value is 1000 counts per turn, not 1024 as with the standard iPCE2.

Hardware Connections

The table below gives the J1 pin assignments.

PIN	Description	PIN	Description	PIN	Description	PIN	Description
1	Input 2	11	T2 - Bit2	21	OE	31	T1 - Bit5
2	Input 3	12	Input 5	22	NC	32	T2 - Bit8
3	Input 1	13	T2 - Bit3	23	T2 - Bit11	33	T1 - Bit4
4	Input 4	14	Vn	24	NC	34	T2 - Bit9
5	T2 - Bit1	15	T1 - Bit10	25	T1 - Bit8	35	T1 - Bit3
6	Input 8	16	GND	26	T2 - Bit5	36	T2 - Bit10
7	T1 - Bit12	17	T1 - Bit9	27	T1 - Bit7	37	T1 - Bit2
8	Input 7	18	NC	28	T2 - Bit6	38	MD
9	T1 - Bit11	19	T2-Bit4	29	T1 - Bit6	39	T1 - Bit1
10	Input 6	20	NC	30	T2 - Bit7	40	T2 - Bit12

Notes:

T1 - Transducer 1

T2 - Transducer 2

NC - No Connection

MD - Motion Detector Output.

OE - Output Enable. Must be grounded for normal operation.

Vn - Internal unregulated +12 Vdc Supply on units with Sinking and TTL outputs. Can be used as a logic "1" supply for the inputs. Connection for external +5 to +50 Vdc supply for Sourcing output units.

GND - Ground Connection. WARNING: This point is also internally tied to chassis ground.

Model Number and Checksum

A controller with this option displays the following model number and checksum:

Model #: IPCE2-30-0

Checksum: 4765

Catalog Number E230-B93M
