Encoder Open Collector Cable Driver

Description:

The PC3 provides single-ended, open collector outputs and includes a miniature switching power regulator that accepts a power supply from 9.5 to 32 volts. The PC3 is intended for applications where 5VDC is not available to power the encoder, or a higher voltage output from the encoder channel is needed. To achieve the desired output voltage range, add external pull-up resistors to the PC3 open collector outputs. The PC3 provides the added benefit of being a single-ended cable driver for cables up to 500 feet in length.

The PC3-2 is the inline version of our PC3 and is designed for applications where space is limited.

Compatibity for US Digital products:

- > PC3 is used with the E2 and H1.
- > PC3-2-C5 is used with the E2, E3, H1, H3, S1, S2 and T2.
- > PC3-2-LC5 is used with the E2, E3, H1, H3, S1, S2 and T2
- > PC3-2-FC5 is used with the E5M, E5S, E6S, E6M, H5S, H6S, S5S and S6S.
- > PC3-2-W5 is used only when customers do not want a connector attached.

US Digital warrants its products against defects in materials and workmanship for two years. See complete for details.

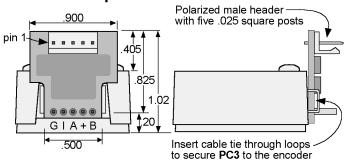


PC3-2-FC5 shown mounted on an E5M encoder

Absolute Maximum Ratings:

Parameter	Min.	Max.	Units
Storage Temperature	-40	100	°C
Operating Temperature	-40	85	°C

Mechanical Specifications:



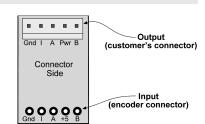
PC3 shown mounted on an E2 encoder

Electrical Characteristics:

Parameter	Min	Тур.	Max.	Units	Notes
Supply Voltage (PWR)	9.5	-	32	Volts	
Supply Current	-	-	75	mA	
Conversion Efficiency	80%	85%	-	-	12V input
Output Voltage Low	-	-	.4	Volts	100 mA

Pin-out:

Pin	Name	Description
1	GND	Ground
2	I	Index
3	Α	A Channel
4	PWR	+5VDC Power
5	В	B channel



Connector Options: (for 2-option only)

W5 = Five 12" discrete wires without connector at input, 5-pin male output.	No Cost
C5 = Five 6" discrete wires with standard mating connector at input, 5-pin male output.	\$2.50
LC5 = Five 6" discrete wires with locking mating connector at input, 5-pin male output.	\$4.50
FC5 = Five 6" discrete wires with finger-latching mating connector at input, 5-pin finger-latching header at output.	\$4.50

Ordering Information:

> Technical Data, Rev. 05.01.02, May 2002 All Information subject to change without notice.



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