

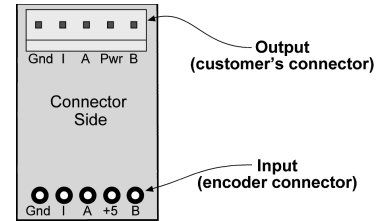
## Description:

The **PC3**, which fits our incremental encoders, provides single ended open collector outputs & includes a tiny switching power regulator which 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. Simply add external pull-up resistors to the **PC3** open collector outputs to achieve the desired output voltage range. The **PC3** provides the added benefit of being a single-ended cable driver for cables up to 500 feet in length. The **PC3** is recommended for the **E2** & **H1** series encoders.

**PC3-2** is designed for applications where space is limited. It is an inline version of our standard **PC3**. It comes with several input & output connector options. The **PC3-2-FC5** is designed to work with the **E5M** & **E6M** encoders (see drawing below). The **PC3-2-C5** & **LC5** are recommended for the **S1**, **S2**, **E3** incremental encoders & **T2** inclinometer.

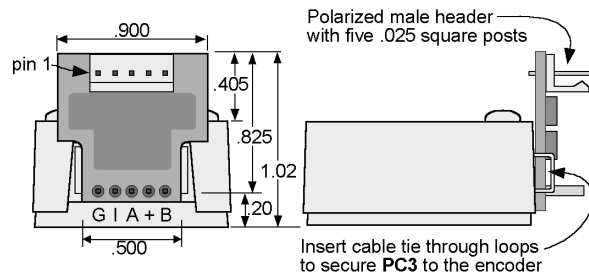
## Pin-out:

| Pin | Name  | Description               |
|-----|-------|---------------------------|
| 1   | GND   | Ground.                   |
| 2   | I     | Open collector index.     |
| 3   | A     | Open collector A channel. |
| 4   | Power | +9.5 to +32 VDC power.    |
| 5   | B     | Open collector B channel. |



## PC3

Shown mounted on an E2 encoder



## PC3-2-FC5

Shown connected to an E5M encoder



## Electrical Characteristics:

| Parameter             | Min | Typ. | Max. | Units | Notes     |
|-----------------------|-----|------|------|-------|-----------|
| Supply voltage (PWR)  | 9.5 | -    | 32   | Volts |           |
| Conversion efficiency | 80% | 85%  | -    | -     | 12V input |
| Output voltage low    | -   | -    | .4   | Volts | 100 mA    |

## Absolute Maximum Ratings:

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

## Connector Options: (for 2-option only)

|   |                |
|---|----------------|
| <b>W5</b> = Five 12" discrete wires without connector at input, 5-pin male output. (AMP# 640457-5)  | <b>No Cost</b> |
| <b>C5</b> = Five 6" discrete wires with standard mating connector at input (AMP# 640440-5), 5-pin male output. (AMP# 640457-5)  | <b>\$2.50</b>  |
| <b>LC5</b> = Five 6" discrete wires with high pressure pin connector at input (AMP# 1-87175-2), 5-pin male output. (AMP# 640457-5)  | <b>\$4.50</b>  |
| <b>FC5</b> = Five 6" discrete wires with finger-latching connector at input, for the <b>E5M</b> & <b>E6M</b> series encoders (AMP# 103956-4), 5-pin finger-latching header at output. | <b>\$4.50</b>  |

## Ordering Information:

Price:  
\$19 / 1  
\$18 / 100  
\$17 / 500  
\$16 / 1K

PC3 -

Options:  
1 = No connector  
2 = Inline with cable

See above for connector options (for 2-option only)

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All Information subject to change without notice.