

# prosense® PTD25 Pressure Transmitters

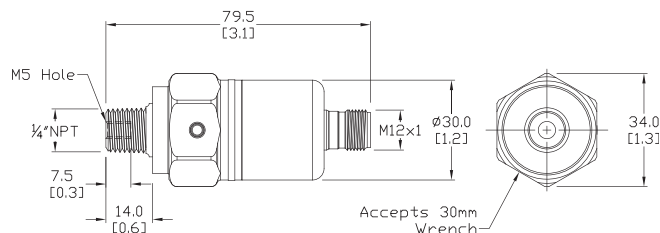
| Applications<br>(Type of Pressure: Relative Pressure, Liquids and Gases) |                     |                               |                    |
|--------------------------------------------------------------------------|---------------------|-------------------------------|--------------------|
| Part Number                                                              | Measuring Range     | Permissible Overload Pressure | Bursting Pressure  |
|                                                                          | Psig                | Psig                          | Psig               |
| PTD25-10-5000H<br>PTD25-20-5000H                                         | 0 to 5000           | 11600                         | 17400              |
| PTD25-10-3000H<br>PTD25-20-3000H                                         | 0 to 3000           | 5800                          | 12300              |
| PTD25-10-1000H<br>PTD25-20-1000H                                         | 0 to 1000           | 4350                          | 9400               |
| PTD25-10-0500H<br>PTD25-20-0500H                                         | 0 to 500            | 2175                          | 5075               |
| PTD25-10-0200H<br>PTD25-20-0200H                                         | 0 to 200            | 1087                          | 2175               |
| PTD25-10-0100H<br>PTD25-20-0100H                                         | 0 to 100            | 1087                          | 2175               |
| PTD25-10-0030H<br>PTD25-20-0030H                                         | 0 to 30             | 290                           | 725                |
| PTD25-10-0015H<br>PTD25-20-0015H                                         | 0 to 15             | 145                           | 450                |
| PTD25-10-VH<br>PTD25-20-VH                                               | -14.5 to 0 (vacuum) | 145                           | 450                |
|                                                                          | inH <sub>2</sub> O  | inH <sub>2</sub> O            | inH <sub>2</sub> O |
| PTD25-10-0100WCH<br>PTD25-20-0100WCH                                     | 0 to 100            | 2400                          | 12043              |

inH<sub>2</sub>O = Inches of Water (represents Water Column)

All PTD25 series transmitters can withstand vacuum down to -14.5 psig

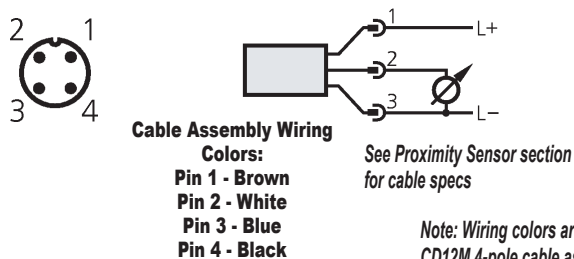
## Dimensions

mm [inches]

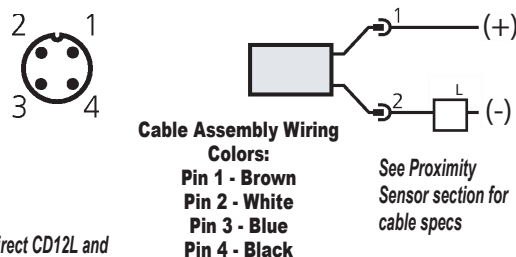


See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.

## PTD25-10 Wiring Diagrams



## PTD25-20 Wiring Diagrams



## Pressure Units Conversion Chart

| Pressure Conversion Table: Multiplication Factors |                              |                            |                            |                              |                            |                           |                           |                           |                          |                          |
|---------------------------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|
| Desired Units                                     | Known Units                  |                            |                            |                              |                            |                           |                           |                           |                          |                          |
|                                                   | Atmos                        | Bars                       | In of Hg (0°C)             | In of H <sub>2</sub> O (4°C) | K grams/meter <sup>2</sup> | Lb/in <sup>2</sup> (psig) | Lb/ft <sup>2</sup>        | mm of Hg torr             | Pascals                  |                          |
|                                                   | Atmos                        | 1                          | 9.86923 x 10 <sup>-1</sup> | 3.34207 x 10 <sup>-2</sup>   | 2.458 x 10 <sup>-3</sup>   | 9.678 x 10 <sup>-5</sup>  | 0.068046                  | 4.7254 x 10 <sup>-4</sup> | 1.316 x 10 <sup>-3</sup> | 9.869 x 10 <sup>-6</sup> |
|                                                   | Bars                         | 1.01325                    | 1                          | 3.3864 x 10 <sup>-2</sup>    | 2.491 x 10 <sup>-3</sup>   | 9.8067 x 10 <sup>-5</sup> | 6.8948 x 10 <sup>-2</sup> | 4.788 x 10 <sup>-4</sup>  | 1.333 x 10 <sup>-3</sup> | 10 <sup>-5</sup>         |
|                                                   | In of Hg (0°C)               | 29.9213                    | 29.53                      | 1                            | 7.355 x 10 <sup>-2</sup>   | 2.896 x 10 <sup>-3</sup>  | 2.036                     | 0.014139                  | 3.937 x 10 <sup>-2</sup> | 2.953 x 10 <sup>-4</sup> |
|                                                   | In of H <sub>2</sub> O (4°C) | 406.8                      | 401.46                     | 13.60                        | 1                          | 3.937 x 10 <sup>-2</sup>  | 27.68                     | 0.1922                    | 0.5354                   | 4.014 x 10 <sup>-3</sup> |
|                                                   | K grams/meter <sup>2</sup>   | 1.033227 x 10 <sup>4</sup> | 1.0197 x 10 <sup>4</sup>   | 345.3                        | 25.40                      | 1                         | 7.0306 x 10 <sup>2</sup>  | 4.882                     | 13.59                    | 1.019 x 10 <sup>-1</sup> |
|                                                   | Lb/in <sup>2</sup> (psig)    | 14.695595                  | 14.504                     | 0.4912                       | 3.6126 x 10 <sup>-2</sup>  | 1.423 x 10 <sup>-3</sup>  | 1                         | 6.9444 x 10 <sup>-3</sup> | 1.934 x 10 <sup>-2</sup> | 1.450 x 10 <sup>-4</sup> |
|                                                   | Lb/ft <sup>2</sup>           | 2116.22                    | 2088.5                     | 70.726                       | 5.202                      | 0.2048                    | 144.0                     | 1                         | 2.7844                   | 2.089 x 10 <sup>-2</sup> |
|                                                   | mm of Hg torr                | 760                        | 750.06                     | 25.400                       | 1.868                      | 7.3558 x 10 <sup>-2</sup> | 51.715                    | 0.35913                   | 1                        | 7.502 x 10 <sup>-3</sup> |
|                                                   | Pascals                      | 1.01325 x 10 <sup>5</sup>  | 1 x 10 <sup>5</sup>        | 3.386 x 10 <sup>3</sup>      | 2.491 x 10 <sup>2</sup>    | 9.8067                    | 6.8948 x 10 <sup>3</sup>  | 4.788 x 10 <sup>1</sup>   | 1.333 x 10 <sup>2</sup>  | 1                        |

Example: To convert from 50 psig to "In of H<sub>2</sub>O", (50 psig) (27.68) = 1384 In of H<sub>2</sub>O