API 13.389 Load Cell Connectors

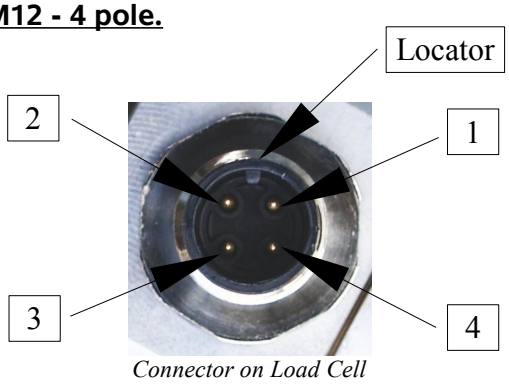
Product Support

Load Cell connectors are a convenient way to provide detachable cables.

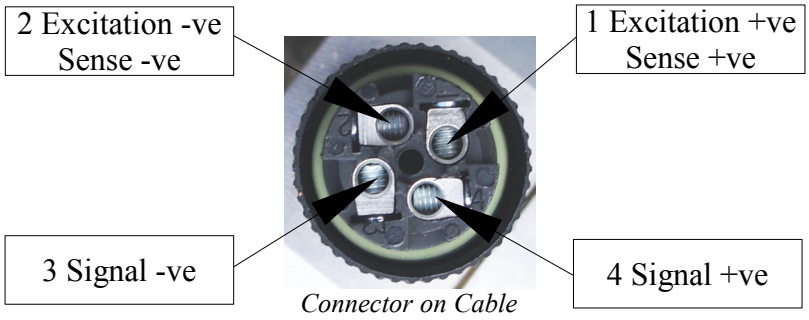
PT use industry standard M12 sensor connectors on a range of products. These connectors are robust and fully sealed, designed specifically for industrial sensors. They are readily available from a number of vendors, offering full interoperability, should spare parts be required.

PT have adopted the following connection protocol.

M12 - 4 pole.



Connector on Load Cell



Connector on Cable

The cable should be selected for the desired length and operating environment. PT offer a range of cable packs that can be used. A six wire connection to the indicator provides the optimum accuracy, for this form of connection the Sense +ve should be connected together with the Excitation +ve in terminal 1 and the Sense -ve should be connected together with the Excitation -ve in terminal 2. A four core cable can be used also. If it is desired to match the cable wiring colour code to the standard PT load cell colour code connections should be made as follows.

Excitation +ve = Red	Signal +ve = Green	Sense +ve = Brown
Excitation -ve = Black	Signal -ve = White	Sense -ve = Blue

- Pass the cable through the gland clamping nut, rubber seal and connector back shell.
- Strip the cable to expose the individual wires (cores) for a length of 15 to 20mm. Make sure the screen is stripped and removed so that it cannot contact the terminals or body.
- Strip the wires for a length of 10mm and twist the strands of each wire individually. If a six core cable is used the Excitation and Sense +ve wires can be twisted together and Excitation and Sense -ve wires can be twisted together.
- Tighten the correct wires in the screw terminals as shown above.
- Attach the back shell to the connector and tighten, fit the gland clamping nut and tighten to seal the cable.

The cable can be installed and connected at the other end to the electronic equipment as desired.