CTC AppNotes

A series of technical documents written by members of the CTC community

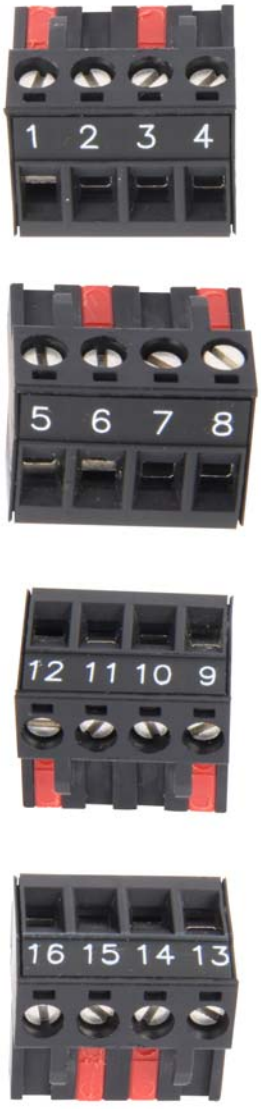
Signal Conditioner terminal Keying prevents incorrect wiring

CTC's Pro line of signal conditioners designed to provide easy in field modification via dip switches for many of the parameters the unit is designed to monitor. The ease of infield modification is enhanced by the removable terminals on the signal conditioners. However one thing that should not be modified is the positioning of the four terminal blocks. Accidentally switching two of the blocks can cause significant damage to the internal circuits of the SC200 unit. In order to avoid this CTC now ships the SC200 series with the terminals and their respective positions with interlocking key strips. Each terminal block and each matching slot has four positions that are inserted with position blocks. Each slot must be alternated with the opposite position. For example if the terminal blocks has been keyed in slots 1 and 4 then the slot that the block will mate with will have its keys in slots 2 and 3. By using 4 separate sequences of keying avoids confusion and possible incorrect connections.

Figure 1; Positions 5-8
Arrows indicate proper alignmentof the red keys on receptacle align with open slots on terminal block. Keyed slots on terminal block align with open slots on receptacle.

Figure 2; Positions 9-12
Arrows indicate proper alignment keys on receptacle align with open slots on terminal block. Keyed slots on terminal block align with open slots on receptacle.

Standard alignment keying for each terminal block shown below.



If you have any questions or for further information please contact CTC directly via Email at dgripe@ctconline.com or jsmith@ctconline.com or feel free to call 1-800-999-5290 in the US and Canada or +1-585-924-5900 internationally.

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If any CTC vibration analysis hardware product should ever fail, we will repair or replace it at no charge.