

AC Series Load Cells

Cardinal's AC Series analog load cells are certified (NTEP #17-123 and OIML #2000-A-GB1-18.03) heavy-capacity compression load cells that are ideal for multi-cell applications, such as above ground or pit vehicle scales and tank/hopper weighing systems.

They are a direct replacement for, and are interchangeable with, the Cardinal 50K-SCA and 100K-SCA load cells. However, it should be noted that the AC Series load cells have six wires in the load cell cable, whereas the SCA load cells only have four. To allow replacing the 4-wire SCA load cell with the 6-wire AC load cell, the AC load cells are shipped with the (+)Excitation (green) and (+)Sense wires (blue) soldered together and the (-)Excitation (black) and (-)Sense wires (yellow) soldered together.

If the installation requires separate (+)Sense and (-)Sense wires (e.g. for some instruments, a constant voltage must be maintained at the load cell) then the sense wires should be separated from the excitation wires and all six wires of the load cell properly prepared for use in the instrument.

Load Cell Wiring Color Code

AC Series	
(-)SIGNAL	WHITE
(+)SIGNAL	RED
(+)SENSE	BLUE
(+)EXCITATION	GREEN
(-)SENSE	YELLOW
(-)EXCITATION	BLACK
SHIELD	Clear Heat Shrink Over Shield Wire

SCA Series	
(-)SIGNAL	WHITE
(+)SIGNAL	RED
(+)SENSE	n/a
(+)EXCITATION	GREEN
(-)SENSE	n/a
(-)EXCITATION	BLACK
SHIELD	Yellow Heat Shrink Over Shield Wire

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