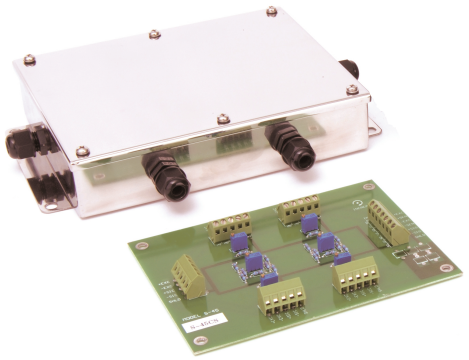
SS-45AS/AE

INSTALLATION MANUAL

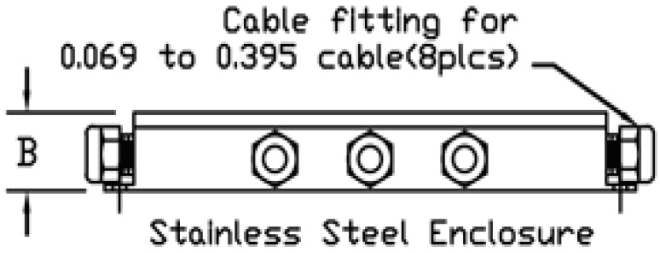
Four-Channel Signal Trim (AS)/Excitation Trim (AE) Junction Box
FM US and Canadian Approved

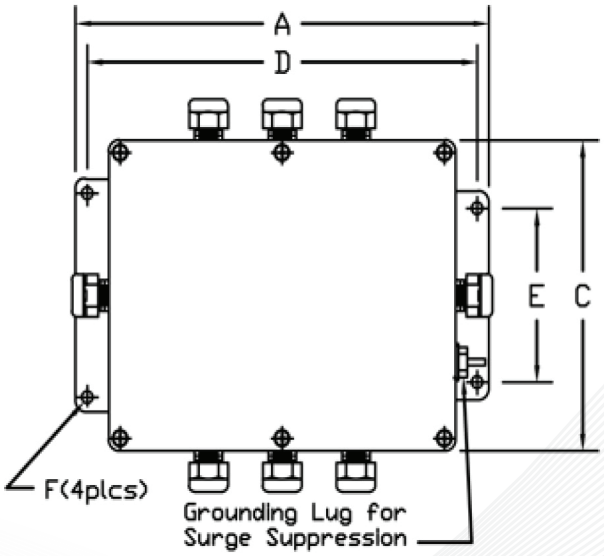
The SS-45AS and SS-45AE Junction Box can accommodate up to four load cells. Load cell output can be trimmed with potentiometers individually. Signal Trim range is 100k pontentiometer at 25 turn increments. The SS-45AS and SS-45AE had section trim and is expandable. Both offer an option of surge protection.



MOUNTING OF THE JUNCTION BOX ENCLOSURE

Mount the SS-45AS or SS45AE in a location convenient for servicing. Try to mount the enclosure in a location that will not require extending the load cells cables. Mount the enclosure using four pan-head screws, bolts, or masonry fasteners.





	DIMENSIONS					
	A	B	C	D	E	F
STAINLESS STEEL	9.81	1.87	6.50	9.00	4.37	0.25

TRIMMING PROCEDURES

1. Turn the four individual cell potentiometers fully counterclockwise to give maximum signal or excitation output from each load cell.

2. Remove all weight from the scale and zero the indicator. Place calibrated test weights over each load cell. The amount of test weights to be used will depend on the scale configuration; for specific recommendations, refer to Handbook 44, published by the National Institute of Standards and Technology (NIST).

3. Record the value displayed on the indicator after the test weight is placed in turn on each section. Allow the scale to return to zero each time to check for friction or other mechanical problems. Select the load cell in each section that has the lowest value as your reference point. This cell will NOT be trimmed.

4. Place the same test load over each section in turn. Using the corresponding potentiometer, trim each cell down to equal the reference point. As section corrections are somewhat interactive, check all cells again for repeatability. If neccesary, repeat steps 3 and 4.

5. Tighten the cord grip assemblies and ensure they are watertight. Each cord grip must be tightened so the rubber sleeves begin to protrude from the hub.

6. Unused hubs must be plugged to prevent moisture entry.

7. Insert the enclosed desiccant bag and replace the cover, tightening the cover screws in an alternating pattern to be certain the gasket is compressed equally in all locations.

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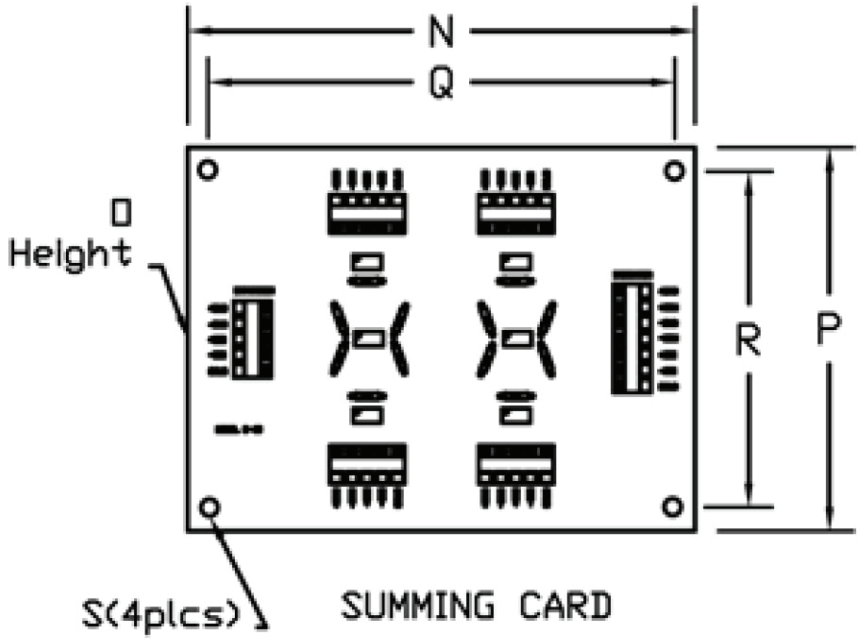
Coti Global Sensors manufactures and supplies load cells to companies worldwide. We carry one of the largest selections of load cells available from any manufacturer. Coti Global manufactures all types of load cells, from single point load cells to double ended beams.

We also sell floor scales, junction boxes, remote displays and other weighing equipment hardware. Our product certifications include NTEP, Factory Mutual Approvals, UBC Seismic Approvals and VCAP.

WIRING

The terminal strips are labeled "Cell 1" through "Cell 4" and are used to connect the individual load cells. Determine the number of cells to be connected to the junction box. The SS-45AS and SS-45AE has been designed to connect and trim four load cells.

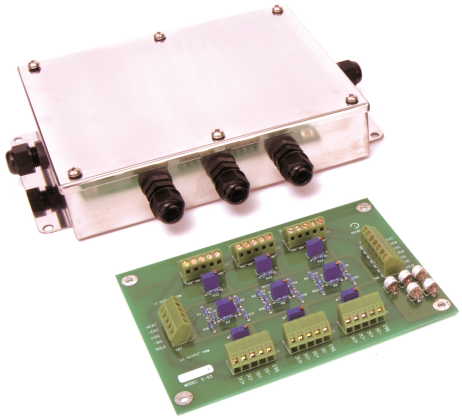
After determining the wiring pattern, route the load cell cables through the nylon cord grip assemblies. Leave the grips loose until final closure. Before connecting the load cells cables to the terminals, check the wire ends have been properly stripped and tinned. Connect the load cell and indicator cables to the appropriate connectors.



	DIMENSIONS					
	N	O	P	Q	R	S
SUMMING CARD	6.79	0.75	5.00	6.25	4.30	0.14

SS-65AS/AE

INSTALLATION MANUAL

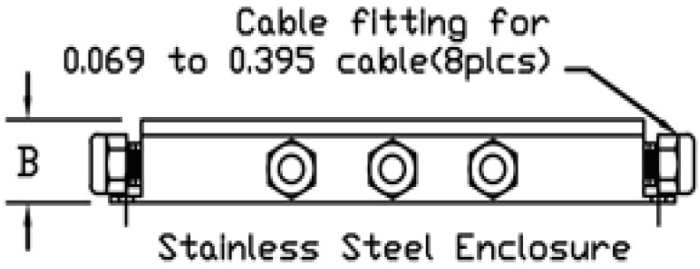


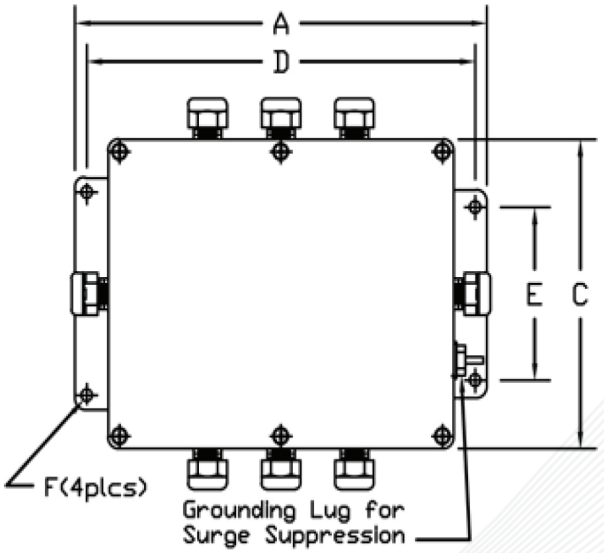
Six-Channel Signal Trim (AS)/Excitation Trim (AE) Junction Box
FM US and Canadian Approved

The SS-65AS and SS-65AE Junction Box can accommodate up to six load cells. Load cell output can be trimmed with potentiometers individually. Trim range is 100K potentiometer at 25 turn increments. The SS-65AS and SS-65AE had section trim and is expandable. Both offer an option of surge protection.

MOUNTING OF THE JUNCTION BOX ENCLOSURE

Mount the SS-65AS or SS-65AE in a location convenient for servicing. Try to mount the enclosure in a location that will not require extending the load cells cables. Mount the enclosure using four pan-head screws, bolts, or masonry fasteners.



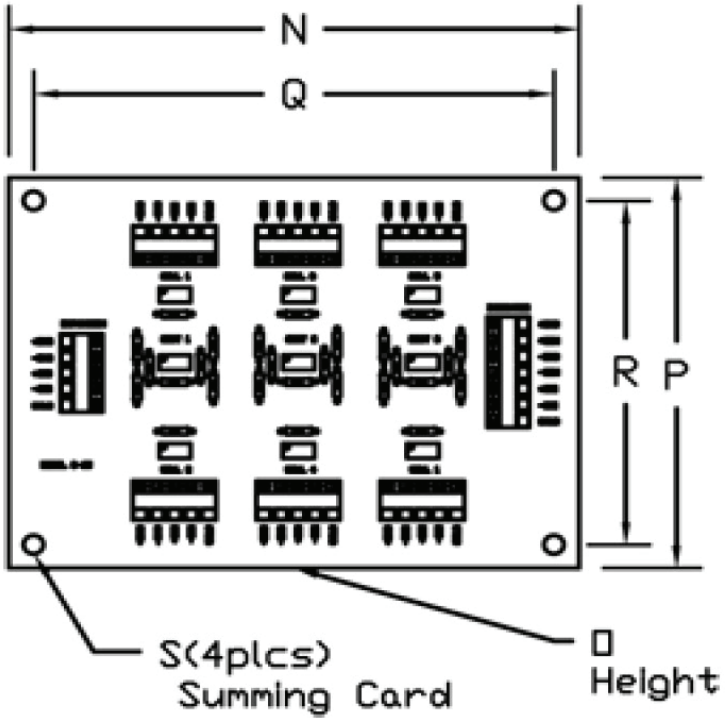


	DIMENSIONS					
	A	B	C	D	E	F
STAINLESS STEEL	9.81	1.87	6.50	9.00	4.37	0.25

WIRING

The terminal strips are labeled "Cell 1" through "Cell 6" and are used to connect the individual load cells. Determine the number of cells to be connected to the junction box. The SS-65AS and SS-65AE has been designed to connect and trim six load cells.

After determining the wiring pattern, route the load cell cables through the nylon cord grip assemblies. Leave the grips loose until final closure. Before connecting the load cells cables to the terminals, check the wire ends have been properly stripped and tinned. Connect the load cell and indicator cables to the appropriate connectors.



	DIMENSIONS					
	N	O	P	Q	R	S
SUMMING CARD	6.79	0.75	5.00	6.25	4.30	0.14

TRIMMING PROCEDURES

1. Turn the six individual cell potentiometers fully counterclockwise to give maximum signal or excitation output from each load cell.

2. Remove all weight from the scale and zero the indicator. Place calibrated test weights in the center of the scale section. The amount of test weights to be used will depend on the scale configuration; for specific recommendations, refer to Handbook 44, published by the National Institute of Standards and Technology (NIST).

3. Record the value displayed on the indicator after the test weight is placed in turn on each section. Allow the scale to return to zero each time to check for friction or other mechanical problems. Select the load cell in each section that has the lowest value as your reference point. This cell will NOT be trimmed.

4. Place the same test load over each section in turn. Using the corresponding potentiometer, trim each cell down to equal the reference point. As section corrections are somewhat interactive, check all cells again for repeatability. If necessary, repeat steps 3 and 4.

5. Tighten the cord grip assemblies and ensure they are watertight. Each cord grip must be tightened so the rubber sleeves begin to protrude from the hub.

6. Unused hubs must be plugged to prevent moisture entry.

7. Insert the enclosed desiccant bag and replace the cover, tightening the cover screws in an alternating pattern to be certain the gasket is compressed equally in all locations.

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