

JB4EP and JB4EPT TuffSeal® Excitation Trim Junction Box

RICE LAKE
WEIGHING SYSTEMS

As of: Tuesday, October 29, 2024



Standard Features

- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal coated circuit board
- Number of cells: two, three or four single cells
- Expansion port

Applications

- Tank and hopper scales

Approvals



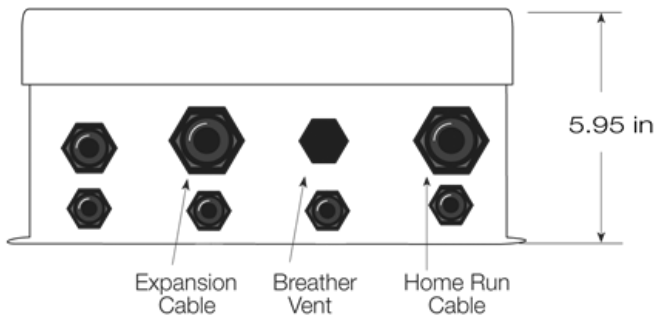
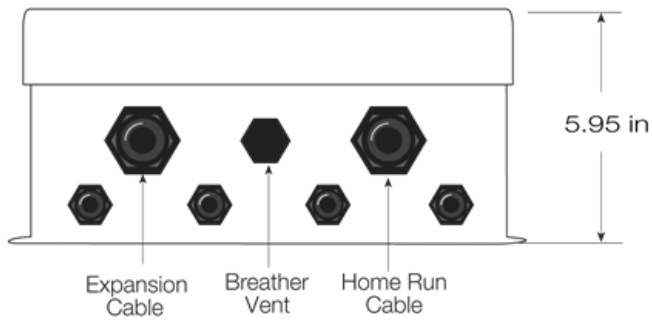
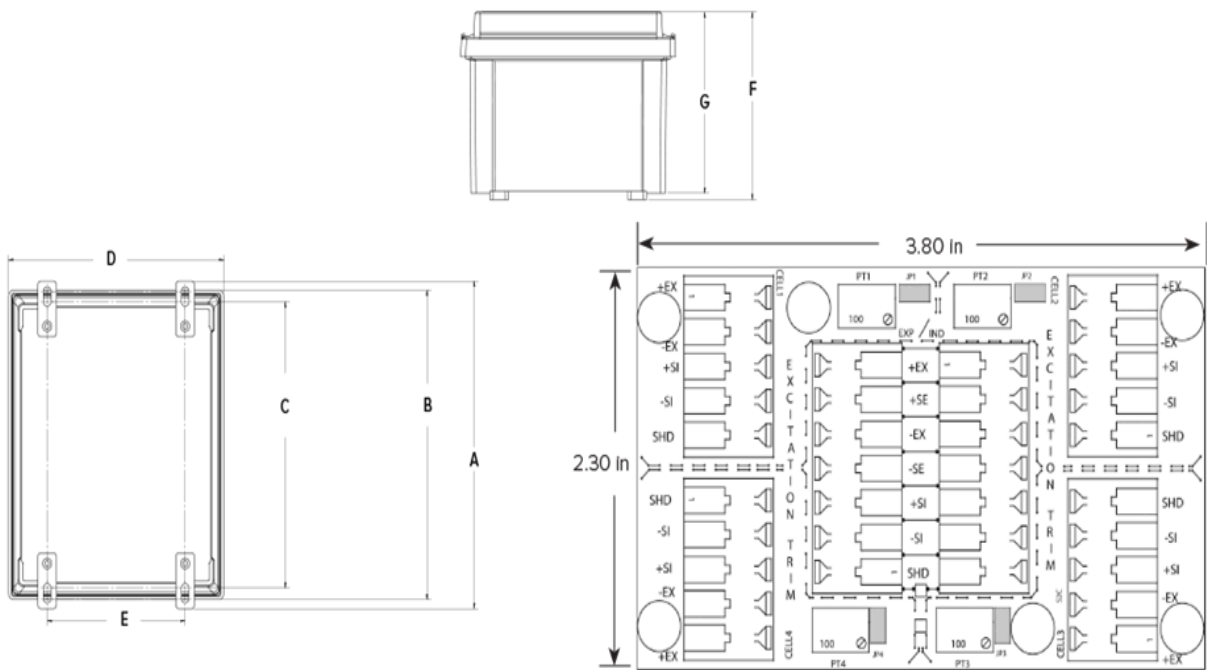
WARNING:
Cancer and
Reproductive
Harm California
Proposition 65

The JB4EP TuffSeal® excitation trim junction box sums two or four single load cell outputs with the potential to expand through the included expansion port. The Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure is optimal protection against harsh environments. Optimal JB4EP TuffSeal applications include tank and hopper scale configurations.

JB4EP and JB4EPT TuffSeal Excitation Trim Junction Box Specifications

Cable Fittings: (4) PG7 0.118 to 0.255 in strain relief (2) PG11 0.197 to 0.394 in strain relief	Connectors: Spring clamp screwless, 12 to 28 AWG	Potentiometers: 100 ohm, 25-turn cermet
Rating/Material: NEMA Type 4X Polycarbonate with overlapping solid cover, stainless steel screws	Trimming: Individual cell, excitation trim	Circuit Board: 3.8 × 2.3 in, with conformal coating
	Temperature: Operating: 0 °F to 122 °F (-18 °C to 50 °C)	Warranty: One-year limited
		Approvals: cFMus

JB4EP & JB4EPT TuffSeal Excitation Trim Junction Box Dimensions



Enclosure			
A	10.04 in	E	4.00 in
B	9.52 in	F	5.95 in
C	8.50 in	G	5.71 in

D	7.43 in		
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Replacement Junction Boxes, Boards or Components Table

Model	Complete J-Box Replacement	Replacement Board Only	Replacement Cord Grips	Replacement Pressure & Condensation Vent	Desiccant Packs
JB4SS	88956	88958	58983=PG7 59001=PG11	88733 PreVent™ breather (vent) 88734 (vent nut)	92240
JB4ES	91779	89446	58983=PG7 59001=PG11	88733 PreVent™ breather (vent) 88734 (vent nut)	92240
JB4SP JB4SPT	91780 92762	88958 89894	58983=PG7 59001=PG11	88733 PreVent™ breather (vent) 88734 (vent nut)	16039
JB4EP JB4EPT	91781 92763	89446 89894	58983=PG7 59001=PG11	88733 PreVent™ breather (vent) 88734 (vent nut)	16039
EL204	73428	88958	N/A	N/A	N/A
JB8SP	91782 173807 - FM Approved	89889 172415 - FM Approved	15655 (cord grip) 15656 (nut)=3/8" NPT 15628 (cord grip) 15630 (nut)=1/2" SPT	88733 PreVent™ breather (vent) 88734 (vent nut)	16039
JB8SPT	91783	89889 (load cell) 89894 (transient protection)	15655 (cord grip) 15656 (nut)=3/8" NPT 15628 (cord grip) 15630 (nut)=1/2" SPT	88733 PreVent™ breather (vent) 88734 (vent nut)	16039
EL304A	21169	21301	N/A	N/A	N/A
JB1010	36231	36351	N/A	N/A	N/A
JB1010ST	68813	68811	N/A	N/A	N/A
EL210	91781, JB4EP*	92472	58983=PG7 59001=PG11	N/A	N/A
EL211A	91780, JB4SP* (The board does not have section trim capabilities)	92473 (The board does not have section trim capabilities)	58983=PG7 59001=PG11	N/A	N/A
EL604-AL	88956, JB4SS*	88958	58983=PG7 59001=PG11	N/A	N/A
EL604STA	88956, JB4SS*	88958	58983=PG7 59001=PG11	N/A	N/A
EL604ETA	91779, JB4ES*	89446	58983=PG7 59001=PG11	N/A	N/A
EL504	21165	21296	N/A	N/A	N/A
JB808S	91782, JB8SP*	92471	15655 (cord grip) 15656 (nut)=3/8" NPT 15628 (cord grip) 15630 (nut)=1/2" SPT	N/A	N/A
JB818ST	91783, JB8SPT*	Need (1) 77445, (1) 89889, (1) 89894	15655 (cord grip) 15656 (nut)=3/8" NPT 15628 (cord grip) 15630 (nut)=1/2" SPT	N/A	N/A

*See catalog page for enclosure dimensions

Parts

Part #	Description
FM Approved	
91781	J-Box,JB4EP 4 Channel Excitation Trim with Expansion, Polycarbonate Nema 4 FM Approved
92763	J-Box,JB4EPT 4 Channel Excitation Trim with Expansion, Polycarbonate Nema 4 FM Approved

Options

Part #	Description
89446	Board,4 Channel ET Excitation Trim w/Expansion FM
89894	Board ASSY,Transient GDT Summing Box transient protection board
165272	Enclosure,JB4SP/SPT Only JB4SP/SPT/EP/EPT Junction Box Enclosure w/o Cord Grips and Filter. Includes Backplate, Cover and Gasket.

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