

EL210 Excitation Trim Junction Box



PART #	DESCRIPTION
21162	EL210

Applications

- Floor scales
- Tank, hopper or vehicle scales
- Summing 2, 3 or 4 cells with trim capability

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Strain relief cable fittings

Number of cells:

- 2 to 4 single cells
- 4 to 8 load cells parallel connected
- Expansion port

Options/Accessories

23123 Excitation trim, 4-channel board only

29846 Additional operating manual

* Footnote

EL211A Signal Trim Junction Box



PART #	DESCRIPTION
23133	EL211A

Applications

- Floor scales
- Tank, hopper or vehicle scales
- Can be used with gated power supplies
- Corner and/or section trim applications

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Strain relief cable fittings

Number of cells:

- 2 or 4 single cells (even number of cells only)
- 4 or 8 load cells parallel connected
- Any unused channels require modification
- Expansion port

Options/Accessories

23124 Signal trim, 4-channel board only

29848 Additional operating manual

CABLE FITTINGS:

4 nylon cable strain reliefs 0.079"-0.314"
(2.0mm-8.0mm)

2 nylon cable strain reliefs 0.236"-0.472"
(6.0mm-12.0mm)

CONNECTORS:

#6 SEMS screw type, accepts spade lugs, tinned leads or bare wires up to #12 AWG

TRIMMING:

Individual cell, excitation trim. Three ranges: no trim, 0-37 ohms or 0-100 ohms

POTENTIOMETERS:

100 ohms, 25-turn cermet

ENCLOSURE:

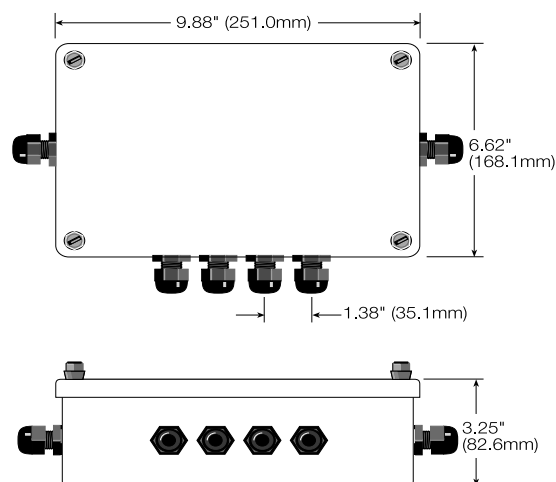
FRP NEMA 4X, 40 psi washdown

CIRCUIT BOARD:

8.0" x 4.625" (203.2mm x 117.4mm) with anti-fungal coating

WARRANTY:

One year limited warranty

**CABLE FITTINGS:**

4 nylon cable strain reliefs 0.079"-0.314"
(2.0mm-8.0mm)

2 nylon cable strain reliefs 0.236"-0.472"
(6.0mm-12.0mm)

CONNECTORS:

#6 SEMS screw type, accepts spade lugs, tinned leads or bare wires up to #12 AWG

TRIMMING:

Individual cell, signal trim, 2.7K ohms isolation resistors with a 2.7K ohms limiting resistor

POTENTIOMETERS:

100K ohms, 25-turn cermet

ENCLOSURE:

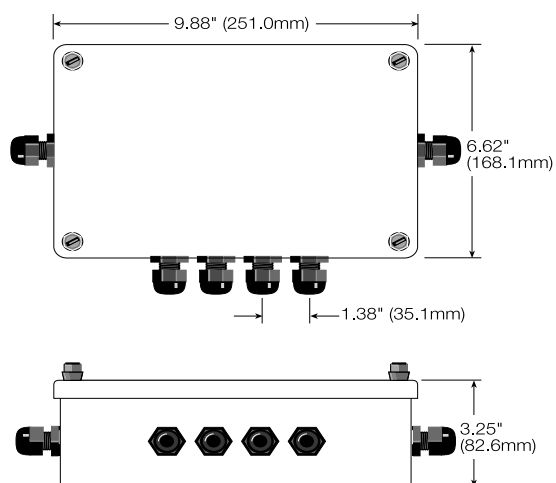
FRP NEMA 4X, 40 psi washdown

CIRCUIT BOARD:

8.0" x 4.625" (203.2mm x 117.4mm) with anti-fungal coating

WARRANTY:

One year limited warranty



EL304A Signal Trim Junction Box



PART #	DESCRIPTION
21169	EL304A

Applications

- Livestock scales
- Tank and vessel weighing
- Corner and/or section trim applications

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Strain relief cable fittings
- Individual cell signal disconnect switches

Number of cells:

- 2 or 4 single cells (even number of cells only)
- Expansion port

Options/Accessories

- 21301 Signal trim, 4-channel expandable board only
- 16937 Additional operating manual

EL604STA Signal Trim Junction Box



PART #	DESCRIPTION
23127	EL604STA

Applications

- Tank scales
- Floor scales
- Limited space installations

Standard Features

- Stainless steel, NEMA 4X enclosure
- Strain relief cable fittings
- High-stability, non-zero interactive trim

Number of cells:

- 2 to 4 single cells
- Any unused channels require modification

Options/Accessories

- 23126 Signal trim, 4-channel board only
- 29978 Additional operating manual

CABLE FITTINGS:

4 nylon cable strain reliefs 0.079"-0.236" (2.0mm-6.0mm)

2 nylon cable strain reliefs 0.236"-0.354" (6.0mm-9.0mm)

CONNECTORS:

Electrovert 0.197" (5.0mm) miniature screw terminals

Maximum wire size #14 AWG

TRIMMING:

Individual cell & section, signal trim, 2.5K ohms isolation resistors, switch selectable limiting resistors

POTENTIOMETERS:

100K ohms, 25-turn cermet

ENCLOSURE:

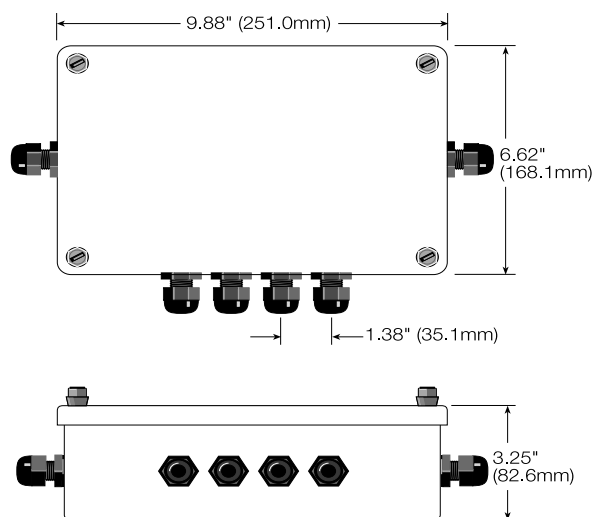
FRP NEMA 4X, 40 psi washdown

CIRCUIT BOARD:

5.5" x 4" (139.7mm x 101.6mm) with anti-fungal coating

WARRANTY:

One year limited warranty

**CABLE FITTINGS:**

4 nylon cable strain reliefs 0.079"-0.314" (2.0mm-8.0mm)

1 cable strain relief nylon 0.236"-0.472" (6.0mm-12.0mm)

CONNECTORS:

WAGO 256-4XX. Maximum wire size #14 AWG

TRIMMING:

Individual cell, signal trim, 2.7K ohms isolation resistors with a 2.7K limiting resistor

POTENTIOMETERS:

100K ohms, 25-turn cermet

ENCLOSURE:

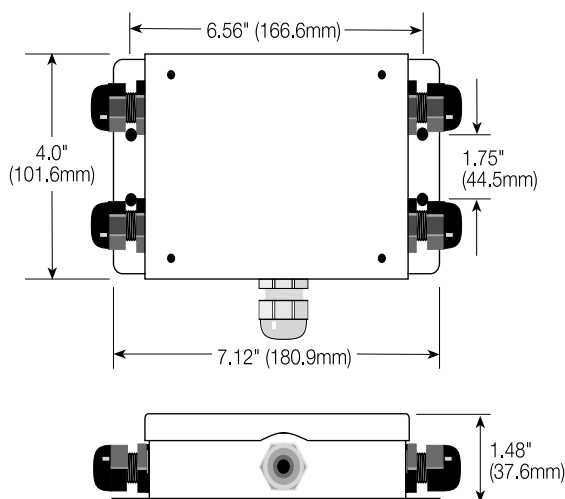
Stainless steel NEMA 4X, 40 psi washdown

CIRCUIT BOARD:

3.8" x 2.3" (96.5mm x 58.4mm) with anti-fungal coating

WARRANTY:

One year limited warranty



EL604ETA Excitation Trim Junction Box



PART #	DESCRIPTION
23129	EL604ETA

Applications

- Tank scales
- Floor scales
- Limited space installations
- Summing 2, 3, 4 cells with trim capability

Standard Features

- Stainless steel, NEMA 4X enclosure
- Strain relief cable fittings

Number of cells:

- 2 to 4 single cells

Options/Accessories

- 23128 Excitation trim, 4-channel board only
- 29980 Additional operating manual

EL168 1-Cell Junction Box



PART #	DESCRIPTION
21161	EL168

Applications

- For splicing or extending load cell cable

Standard Features

- Non-metallic NEMA 4X enclosure with separate input and output cable fittings
- No soldering, compression or swage fittings are required

CABLE FITTINGS:

4 cable strain reliefs nylon 0.079"-0.314" (2.0mm-8.0mm)

1 cable strain relief nylon 0.236"-0.472" (6.0mm-12.0mm)

CONNECTORS:

WAGO 256-4XX

Maximum wire size #14 AWG

TRIMMING:

Individual cell, excitation trim

Three ranges: no trim, 0-37 ohms, 0-100 ohms

POTENTIOMETERS:

100 ohms, 25-turn cermet

ENCLOSURE:

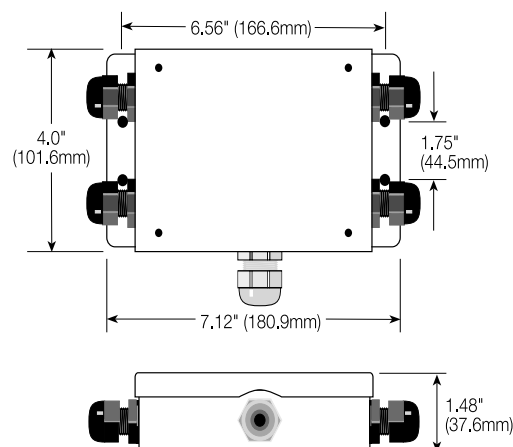
Stainless steel NEMA 4X, 40 psi washdown

CIRCUIT BOARD:

3.8" x 2.3" (96.5mm x 58.4mm) with anti-fungal coating

WARRANTY:

One year limited warranty

**DIMENSIONS:**

3.75" W x 3.75" H x 3" D

(95.3mm W x 95.3mm H x 76.2mm D)

MOUNTING CENTERS:

3.75" x 2.31" (95.2mm x 58.7mm)

CABLE FITTINGS:

Nylon waterproof strain-relief type

CABLE DIAMETER:

0.079"-0.314" (2.0mm-8.0mm)

TERMINAL BLOCK:

Rated 300 V/15A; 7-position, screw terminal can each accommodate up to #16 AWG

WARRANTY:

One year limited warranty

JB 808S Signal Trim Junction Box



PART #	DESCRIPTION
21170	JB 808S

The JB 808S signal trim junction box can be used with up to eight load cells. Load cell output can be trimmed individually, and/or in pairs by altering the jumpers to "section trim" position. The electronics are protected by a fiberglass-reinforced polyester enclosure meeting NEMA 4X standards.

Applications

- Truck and railroad scales
- Summing 2, 4, 6 or 8 cells with individual and section trimming capability

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Strain relief cable fittings
- Section and individual cell trim capability
- Includes 6 filling plugs for unused fittings
- Fungal resistant coating
- Large enclosure for plenty of working room
- Mounting hardware included
- Holes in flange for easy mounting

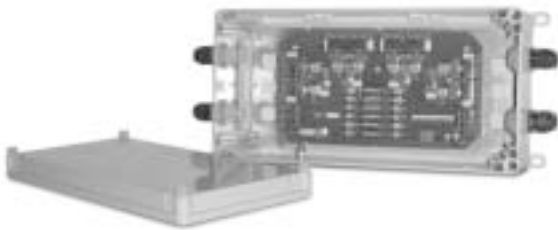
Number of cells:

- 2, 4, 6 or 8 single load cells (even number of cells only)
- Any unused channels require modification

Options/Accessories

- 21306 Circuit board only
- 16939 Additional operating manual

JB 818ST Signal Trim Junction Box with Transient Protection



PART #	DESCRIPTION
66999	JB 818ST

The JB 818ST signal trim junction box features an expansion port that connects to other j-boxes for use in applications that require more than eight load cells or multiple junction boxes. It also offers on-board transient protection, reducing terminal connections and enhancing reliability*. Load cell output can be trimmed individually, and/or in pairs by altering the jumpers to "section trim" position. Electronics are protected by a NEMA 4X polycarbonate enclosure.

Applications

- Truck, livestock and railroad scales
- Summing 2, 4, 6 or 8 load cells with individual and section trimming capability

Standard Features

- NEMA 4X polycarbonate enclosure
- Load cell transient protection
- Section and individual cell trim capability
- Includes 6 filling plugs for unused fittings
- Fungal resistant coating
- Large enclosure for plenty of working room
- Mounting hardware included
- Strain relief cable fittings
- Individual cell signal disconnect switches

Number of cells:

- 2, 4, 6 or 8 single load cells (even number only)
- Expansion port

Options/Accessories

- 65504 Circuit board only
- 67000 Additional operating manual

** Transient protection for 6-wire load cell cable includes parallel gas discharge tubes with series inductors.*

CABLE FITTINGS:

8 nylon cable strain reliefs 0.375" (9.5mm) NPT for cable
dimension range: 0.079"-0.314" (2.0mm-8.0mm)

1 cable strain relief nylon 0.5" (12.7mm) NPT for cable
dimension range: 0.236"-0.472" (6.0mm-12.0mm)

CONNECTORS:

#6 SEMS screw type, accepts spade lugs, tinned leads or bare
wires up to #12 AWG

TRIMMING:

Individual cell, signal trim; sections, signal trim 2.7K isolation
resistors with 2.7K limiting resistor

POTENTIOMETERS:

100K ohms, 25-turn cermet

ENCLOSURE:

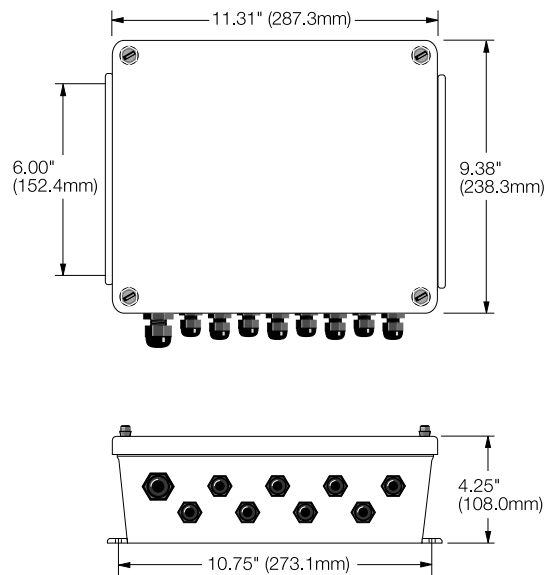
FRP NEMA 4X, 40 psi washdown

CIRCUIT BOARD:

9.0" x 4.7" (228.6mm x 119.4mm) with anti-fungal coating

WARRANTY:

One year limited warranty

**CABLE FITTINGS:**

9 cable strain relief nylon 0.75" (19.05mm) NPT for cable
dimension range: 0.236"-0.472" (6.0mm-12.0mm)

Designed to accept 0.75" seal tight conduit fittings if desired
(conduit fittings not included)

CONNECTORS:

Electrovent 0.197" (5.0mm) miniature screw
Terminals: maximum wire size #14 AWG

TRIMMING:

Individual cell and section signal trim 2.5K Ω isolation resistors
Switch selectable limiting resistors

POTENTIOMETERS:

100K ohms, 25-turn cermet

ENCLOSURE:

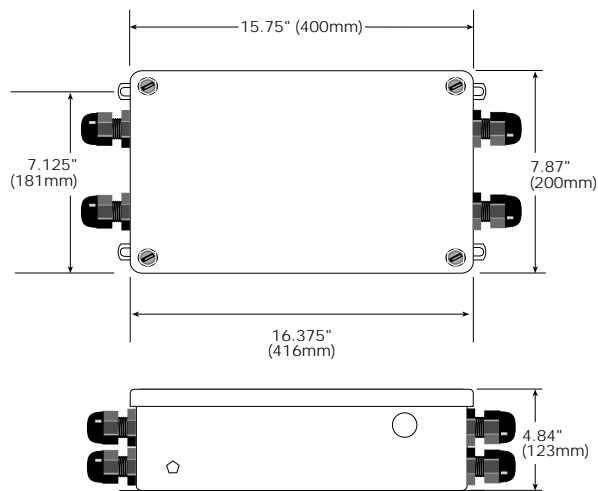
Polycarbonate NEMA 4X

CIRCUIT BOARD:

11.0" x 6" (280mm x 153mm) with anti-fungal coating

WARRANTY:

One year limited warranty



JB1010 Signal/Stet Trim Junction Box with Transient Protection



PART #	DESCRIPTION
36231	JB1010

Applications

- Tank, truck, railroad, hopper and floor scales
- Universal field replacement of existing boxes
- Paralleling load cells
- Expansion of existing scales

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Load cell transient protection
- Signal or excitation trim
- Front panel mounting
- Strain relief cable fittings

Number of cells:

- 1 through 10 with expansion
- Trims odd numbers of cells without modification

Options/Accessories

- 36351 Circuit board only
- 36329 Additional operating manual

MOUNTING CENTERS:

3.75" x 2.31" (95.2mm x 58.7mm)

CABLE FITTINGS:

Nylon waterproof strain-relief type

CABLE DIAMETER:

0.079"-0.314" (2.0mm-8.0mm)

TERMINAL BLOCK:

Rated 300 V/15A; 7-position screw terminal can each accommodate up to #16 AWG

WARRANTY:

One year limited warranty

