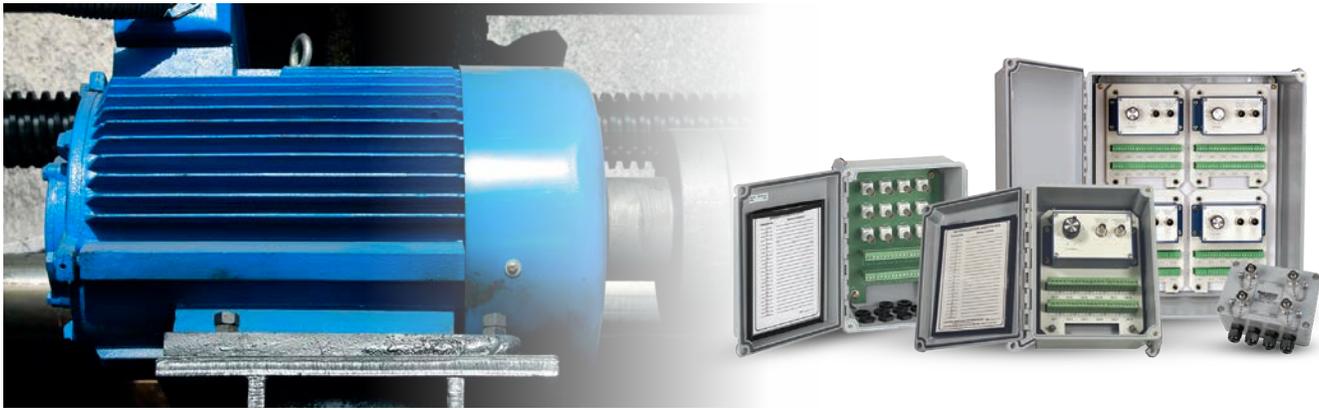




ENCLOSURES



OVERVIEW

IMI Sensors offers a variety of enclosures for predictive maintenance applications including external and internal termination boxes, switch boxes, cable reduction boxes and DIN rail boxes. A brief description of each enclosure type is provided below.

EXTERNAL TERMINATION BOX

Small termination boxes offer a simple, economical and safe method for accessing up to four sensors that are installed in remote locations. Each features a wall mountable, fiberglass, NEMA 4X (IP66) enclosure, an internal terminal strip for connection to pigtailed sensor cables and externally mounted connectors for interface to data collection equipment. Termination boxes do not supply sensor excitation power. Simply connect a data collector with sensor excitation power to the connector of the sensor channel of interest to access that sensor's measurement signal.

INTERNAL TERMINATION BOX

Termination enclosures offer a simple, economical and safe method for accessing up to 12 sensors that are installed in remote locations. Each features a wall mountable, fiberglass NEMA 4X (IP66) enclosure, an internal terminal strip for connection to pigtailed sensor cables and internally mounted connectors for interface to data collection equipment. Termination enclosures do not supply sensor excitation power turn on. Simply open the enclosure door and connect

a data collector with sensor excitation power turned on to the connector of the sensor channel of interest to access that sensor's measurement signal.

SWITCH BOX

IMI Sensors offers 6/12/24/36/48-channel switch boxes designed to optimize manpower utilized on walk-around data collection routes. The boxes provide a central collection point for periodic access to data from remote accelerometers in addition to providing continuous output terminals for data collection by online monitoring systems.

CABLE REDUCTION BOX

IMI Sensors' cable reduction boxes can reduce twelve individual 2-conductor cables into a single multi-conductor cable. The box helps to cut material and labor costs associated with cable runs.

DIN RAIL BOX

Boxes provide a secure, protective enclosure to safeguard DIN rail mount modules from environmental contaminants.

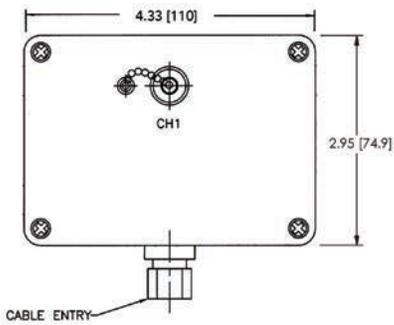
EXTERNAL TERMINATION BOX



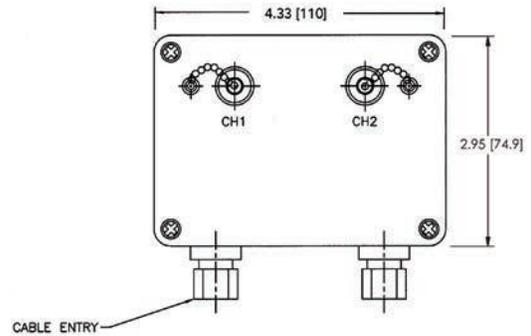
- For use with data collectors that supply ICP® power
- Economical option for centralized data collection

MODELS 691A51/XX

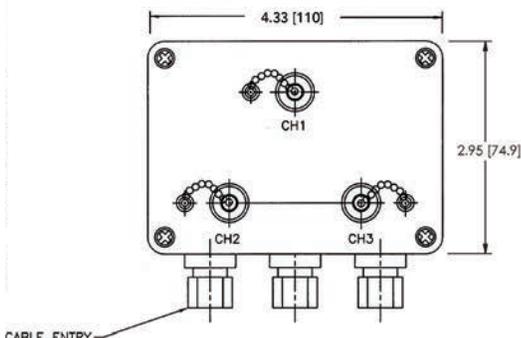
SPECIFICATIONS				
Model Number	691A51/01	691A51/02	691A51/03	691A51/04
Performance				
Channel Count	1	2	3	4
Inputs				
Connector Type	3-Position Terminal Block			
Terminal Type	Screw Terminal			
+ Connection	Signal			
- Connection	Common			
⊥ Connection	Shield			
Outputs				
Connector Number	1	2	3	4
Connector Type	BNC Jack			
Connector Output	Vibration			
Environmental				
Enclosure Rating	NEMA 4X/IP66			
Physical				
Housing Material	Fiberglass			
Connection Ports	1 PGME07 Cord Grip	2 PGME07 Cord Grips	3 PGME07 Cord Grips	4 PGME07 Cord Grips
Size (L x W x H)	4.33 x 2.95 x 2.16 in 110.0 x 74.9 x 55 mm			
Weight	0.90 lb 0.41 kg	0.96 lb 0.44 kg	1.1 lb 0.50 kg	1.1 lb 0.50 kg



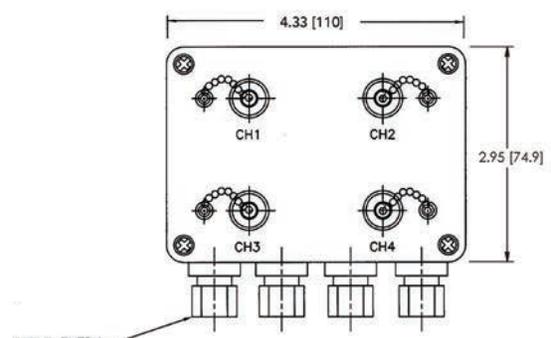
Model 691A51/01



Model 691A51/02



Model 691A51/03



Model 691A51/04

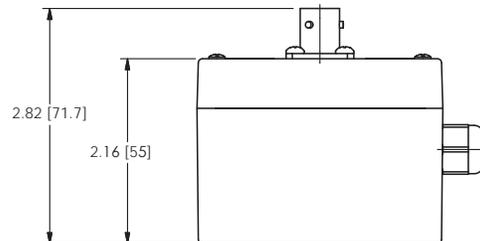
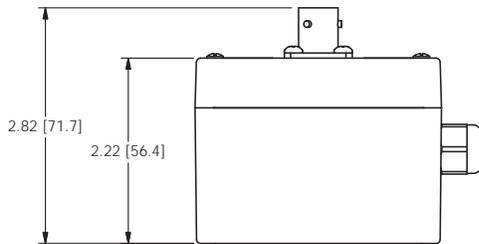
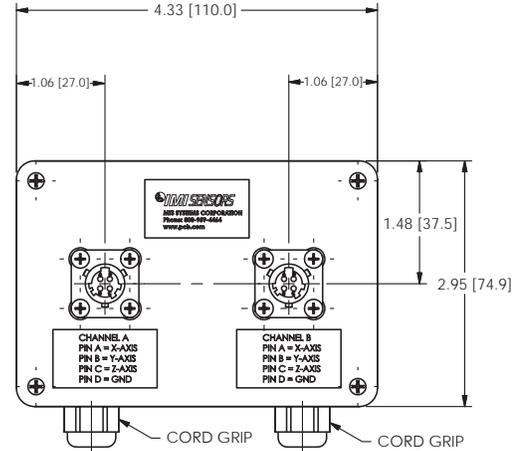
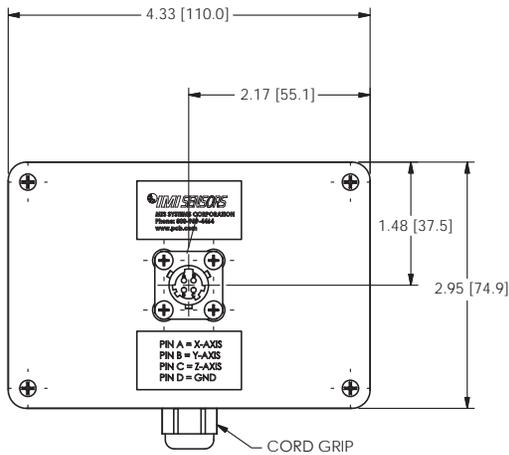
EXTERNAL TERMINATION BOX



- For use with data collectors that supply ICP® power
- Simple way to centralize data collection for triaxial accelerometers

MODELS 691M156 AND 691M157

SPECIFICATIONS		
Model Number	691M156	691M157
Performance		
Channel Count (Triax)	1	2
Inputs		
Connector Type	4-Position Terminal Block	
Terminal Type	Screw Terminal	
X Connection	Signal (X axis)	
Y Connection	Signal (Y axis)	
Z Connection	Signal (Z axis)	
⊥ Connection	Common and Shield	
Outputs		
Connector Number	1	2
Connector Type	4-Pin MIL Connector	
Connector Output	X/Y/Z Vibration	
Environmental		
Enclosure Rating	NEMA 4X/IP66	
Physical		
Housing Material	Fiberglass	
Connection Ports	1 PGME07 Cord Grip	2 PGME07 Cord Grips
Size (H x L x W)	4.33 x 2.95 x 2.16 in 110.0 x 74.9 x 55 mm	
Weight	1.1 lb 0.5 kg	



Model 691M156

Model 691M157

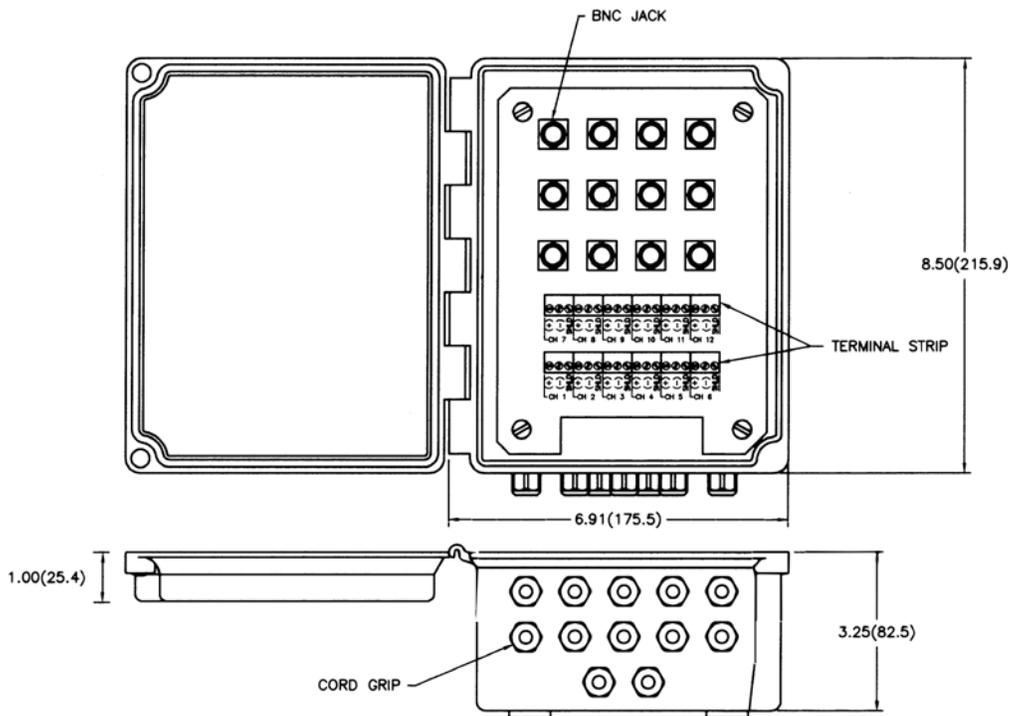
INTERNAL TERMINATION BOX



- Input and output connections housed within waterproof enclosure to withstand harsh environments
- Variations from 1 to 12 channels available

MODELS 691A50/XX

SPECIFICATIONS		
Model Number	691A50/06	691A50/12
Performance		
Channel Count	6	12
Inputs		
Connector Type	3-Position Terminal Block	
Terminal Type	Screw Terminal	
+ Connection	Signal	
- Connection	Common	
± Connection	Shield	
Outputs		
Connector Number	6	12
Connector Type	BNC Jack	
Connector Output	Vibration	
Environmental		
Enclosure Rating	NEMA 4X/IP66	
Physical		
Housing Material	Fiberglass (no prefix), Painted Steel (PS prefix), Stainless Steel (SS prefix)	
Connection Ports	12 PGME07 Cord Grips	
Size (Fiberglass, H x L x W)	8.50 x 6.91 x 4.25 in 215.9 x 175.5 x 107.9 mm	
Weight (Fiberglass)	2.50 lb	1.14 kg



Model 691A50/XX

TRIAxIAL SWITCH BOX

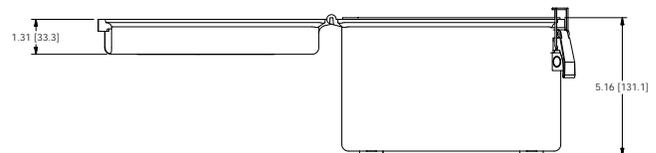
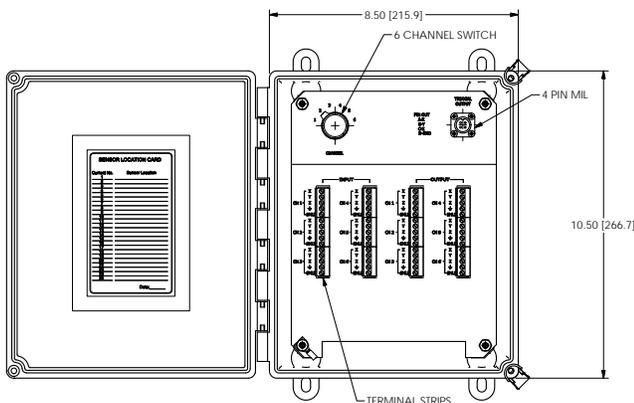
MODEL 691A84



- Collect continuous vibration data via output terminal blocks to online monitoring system
- Collect switched vibration data via 4-pin military connector

SPECIFICATIONS

Model Number	691A84
Performance	
Channel Count (Triax)	6
Inputs	
Connector Type	5-Position Terminal Block
Terminal Type	Screw Terminal
X Connection	Signal (X axis)
Y Connection	Signal (Y axis)
Z Connection	Signal (Z axis)
± Connection	Common
SHLD Connection	Shield
Continuous Outputs	
Connector Type	5-Position Terminal Block
Terminal Type	Screw Terminal
X Connection	Signal (X axis)
Y Connection	Signal (Y axis)
Z Connection	Signal (Z axis)
Connection	Common
SHLD Connection	Shield
Switched Outputs	
Connector Number	1
Connector Type	4-pin MIL Connector
Connector Output	X/Y/Z Vibration
Environmental	
Enclosure Rating	NEMA 4X/IP66
Physical	
Housing Material	Fiberglass (no prefix), Painted Steel (PS prefix), Stainless Steel (SS prefix)
Connection Ports	None
Size (Fiberglass, H x L x W)	10.5 x 8.5 x 6.5 in 266.7 x 215.9 x 165.1 mm
Weight (Fiberglass)	4.8 lb 2.1 kg



SWITCH BOX



MODELS 691C41 & 691C42

- Accommodation of dual signal (simultaneous vibration and temperature) on every channel
- Ability to collect:
 - Switched vibration and temperature data via BNC jack and military connector to handheld data collector
 - Continuous vibration and temperature data via output terminal blocks to online monitoring system
- Tailor box to application requirements with choice of three enclosure types and several connection port options

MODELS 691C41 AND 691C42

SPECIFICATIONS		
Model Number	(PS)(SS)691C41(T)	(PS)(SS)691C42(T)
Performance		
Channel Count	6	12
Inputs		
Input Connector	4-Position Terminal Blocks	
Terminal Type	Screw Terminal	
+ Connection	Signal	
- Connection	Common	
≡ Connection	Shield	
TEMP Connection	Temperature	
Continuous Inputs		
Input Connector	4-Position Terminal Blocks	
Terminal Type	Screw Terminal	
+ Connection	Signal	
- Connection	Common	
≡ Connection	Shield	
TEMP Connection	Temperature	
Switched Outputs		
Connector Number	3	
Connector #1 Type	MIL Connector: 2-Pin (no suffix) or 3-Pin (T suffix)	
Connector #1 Output	Vibration (no suffix) or Vibration & Temperature (T suffix)	
Connector #2 Type	BNC Jack	
Connector #2 Output	Vibration	
Connector #3 Type	BNC Jack	
Connector #3 Output	Temperature	
Environmental		
Enclosure Rating	NEMA 4X / IP66	
Physical		
Housing Material	Fiberglass (no prefix), Painted Steel (PS prefix), Stainless Steel (SS prefix)	
Connection Ports	Configurable	
Size (Fiberglass, H x L x W)	10.5 x 8.5 x 6.5 in 266.7 mm x 215.9 mm x 165.1 mm	
Weight (Fiberglass, no connection ports)	5.0 lb 2.3 kg	5.2 lb 2.4 kg

SELECTION MATRIX FOR FACTORY-INSTALLED CONNECTION PORTS

Add the appropriate connection port model number to the end of the switch box base model. (ie. 691C41/691010 = Fiberglass 6-channel switch box with 2-pin MIL connector and 6 PGME07 cord grips.)

Switch Box Model	No Ports	(6) PGME07 Cord Grips	(12) PGME07 Cord Grips	(1) PGME29 Cord Grip	(2) PGME29 Cord Grips	(6) PGME07 & (1) PGME29 Cord Grips	(12) PGME07 & (1) PGME29 Cord Grips	(1) 1.5" Conduit Fitting	(2) 1.5" Conduit Fittings
	--	/691010	/691020	/691011	/691071	/691004	/691000	/691013	/691026
(PS)(SS)691C41(T)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
(PS)(SS)691C42(T)	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes

SWITCH BOX



- Accommodation of dual signal (simultaneous vibration and temperature) on every channel
- Ability to collect:
 - Switched vibration and temperature data via BNC jack and military connector to handheld data collector
 - Continuous vibration and temperature data via output terminal blocks to online monitoring system
- Tailor box to application requirements with choice of three enclosure types and several connection port options

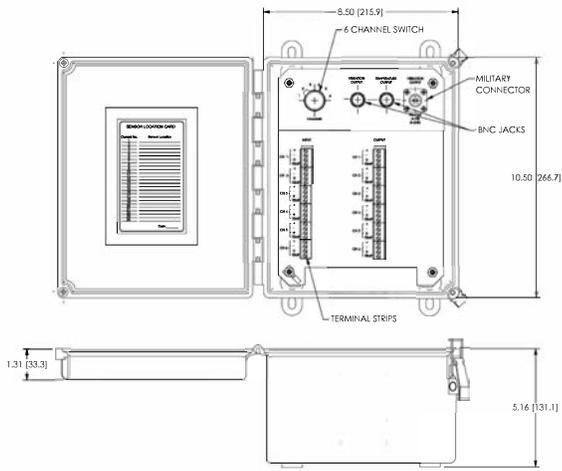
MODELS 691C43, 691C44, 691C45 AND 691C46

SPECIFICATIONS				
Model Number	(PS)(SS) 691C43(T)	(PS)(SS) 691C44(T)	(PS)(SS) 691C45(T)	(PS)(SS) 691C46(T)
Performance				
Channel Count	12	24	36	48
Board Count	1	2	3	4
Inputs (per 12-channel board)				
Input Connector	4-Position Terminal Blocks			
Terminal Type	Screw Terminal			
+ Connection	Signal			
- Connection	Common			
≡ Connection	Shield			
TEMP Connection	Temperature			
Continuous Inputs (per 12-channel board)				
Input Connector	4-Position Terminal Blocks			
Terminal Type	Screw Terminal			
+ Connection	Signal			
- Connection	Common			
≡ Connection	Shield			
TEMP Connection	Temperature			
Switched Outputs (per 12-channel board)				
Connector Number	3			
Connector #1 Type	MIL Connector: 2-Pin (no suffix) or 3-Pin (T suffix)			
Connector #1 Output	Vibration (no suffix) or Vibration & Temperature (T suffix)			
Connector #2 Type	BNC Jack			
Connector #2 Output	Vibration			
Connector #3 Type	BNC Jack			
Connector #3 Output	Temperature			
Environmental				
Enclosure Rating	NEMA 4X / IP66			
Physical				
Housing Material	Fiberglass (no prefix), Painted Steel (PS prefix), Stainless Steel (SS prefix)			
Connection Ports	Configurable			
Size (Fiberglass, H x L x W)	21.1 x 16.6 x 10.6 in 535.9 mm x 421.6 mm x 269.2 mm			
Weight (Fiberglass, no connection ports)	17.0 lb 7.7 kg	18.0 lb 8.2 kg	19.0 lb 8.6 kg	20.0 lb 9.1 kg

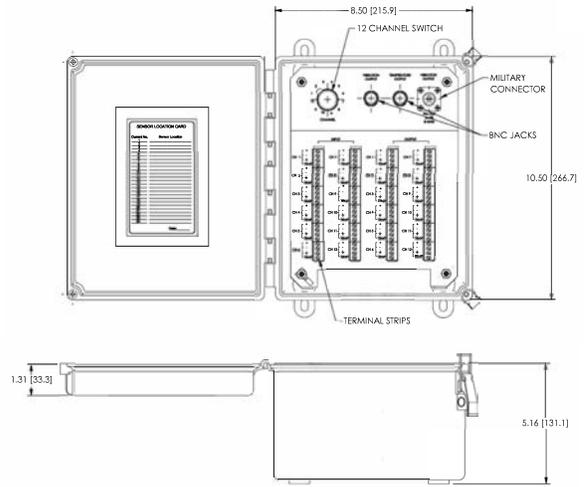
SELECTION MATRIX FOR FACTORY-INSTALLED CONNECTION PORTS

Add the appropriate connection port model number to the end of the switch box base model. (ie. 691C44/691040 = Fiberglass 24-channel switch box with 2-pin MIL connector and 24 PGME07 cord grips.)

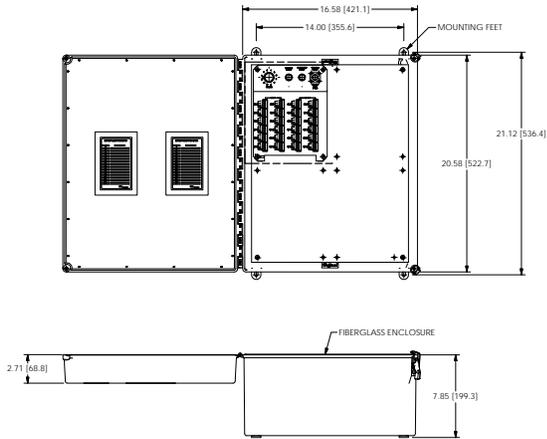
Switch Box Model	No Ports	(12) PGME07 Cord Grips	(24) PGME07 Cord Grips	(36) PGME07 Cord Grips	(48) PGME07 Cord Grips	(1) PGME21 Cord Grips	(2) PGME21 Cord Grips	(3) PGME21 Cord Grips	(4) PGME21 Cord Grips	(6) PGME21 Cord Grips	(8) PGME21 Cord Grips
	--	/691020	/691040	/691050	/691060	/691024	/691044	/691054	/691064	/691057	/691067
(PS)(SS) 691C43(T)	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No
(PS)(SS) 691C44(T)	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No
(PS)(SS) 691C45(T)	Yes	No	No	Yes	No	No	No	Yes	No	Yes	No
(PS)(SS) 691C46(T)	Yes	No	No	No	Yes	No	No	No	Yes	No	Yes
Switch Box Model	(12) PGME07 & (1) PGME21 Cord Grips	(24) PGME07 & (2) PGME21 Cord Grips	(36) PGME07 & (3) PGME21 Cord Grips	(48) PGME07 & (4) PGME21 Cord Grips	(1) 1.5" Conduit Fitting	(2) 1.5" Conduit Fitting	(3) 1.5" Conduit Fitting	(4) 1.5" Conduit Fitting	(6) 1.5" Conduit Fitting	(8) 1.5" Conduit Fitting	
	/691037	/691048	/691058	/691068	/691013	/691026	/691055	/691065	/691056	/691066	
(PS)(SS) 691C43(T)	Yes	No	No	No	Yes	Yes	No	No	No	No	
(PS)(SS) 691C44(T)	No	Yes	No	No	No	Yes	No	Yes	No	No	
(PS)(SS) 691C45(T)	No	No	Yes	No	No	No	Yes	No	Yes	No	
(PS)(SS) 691C46(T)	No	No	No	Yes	No	No	No	Yes	No	Yes	



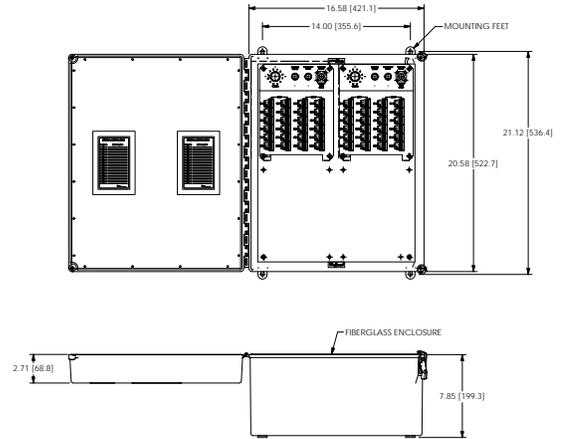
**6-CHANNEL FIBERGLASS SWITCH BOX
(SMALL ENCLOSURE)**



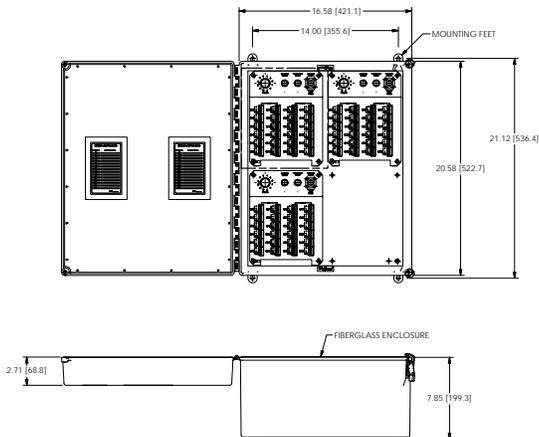
**12-CHANNEL FIBERGLASS SWITCH BOX
(SMALL ENCLOSURE)**



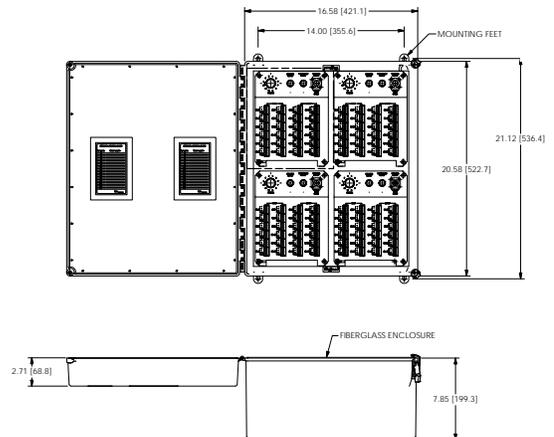
**12-CHANNEL FIBERGLASS SWITCH BOX
(LARGE ENCLOSURE)**



**24-CHANNEL FIBERGLASS SWITCH BOX
(LARGE ENCLOSURE)**



**36-CHANNEL FIBERGLASS SWITCH BOX
(LARGE ENCLOSURE)**



**48-CHANNEL FIBERGLASS SWITCH BOX
(LARGE ENCLOSURE)**

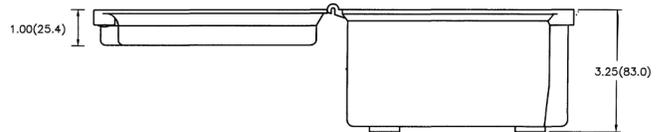
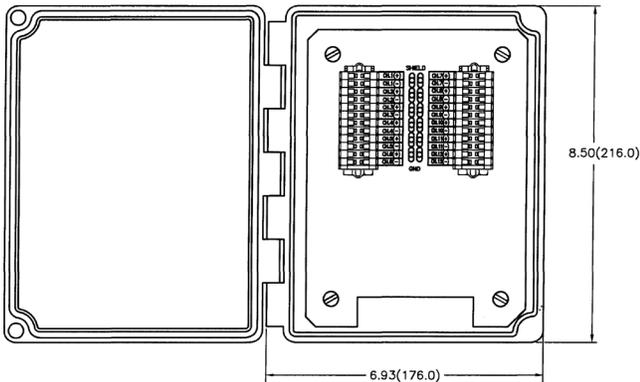
CABLE REDUCTION BOX

MODEL 691B35



- Can accept up to 12 individual signal cables
- Reduce up to 12 individual cables to a single 24-conductor cable

SPECIFICATIONS	
Model Number	691B35
Performance	
Channel Count	12
Inputs	
Connector Type	3-Position Terminal Block
Terminal Type	Screw Terminal
+ Connection	Signal
- Connection	Common
SHIELD Connection	Shield
Continuous Outputs	
Connector Type	3-Position Terminal Block
Terminal Type	Screw Terminal
+ Connection	Signal
- Connection	Common
SHIELD Connection	Shield
Environmental	
Enclosure Rating	NEMA 4X/IP66
Physical	
Housing Material	Fiberglass (no prefix), Painted Steel (PS prefix), Stainless Steel (SS prefix)
Connection Ports	Configurable
Size (Fiberglass, H x L x W)	8.50 x 6.93 x 4.25 in 216.0 x 176.0 x 108.4 mm
Weight (Fiberglass, no connection ports)	4.8 lb 2.1 kg



SELECTION MATRIX FOR FACTORY-INSTALLED CONNECTION PORTS

Add the appropriate connection port model to the end of the cable reduction box base model. (ie. 691B35/691000 = Fiberglass 12-channel cable reduction box with twelve PGME07 & one PGME29 cord grip.)

Cable Reduction Box Model	No Ports	(12) PGME07 & (1) PGME29 Cord Grips	(1) PGME21 & (1) PGME29 Cord Grips	(1) PGME36 & (1) PGME29 Cord Grips	(2) 1.5" Conduit Fittings	(6) PGME07 & (1) PGME29 Cord Grips	(12) PGME07 Cord Grips & (1) 1.5" Conduit Fitting	(1) PGME21 Cord Grip	(12) PGME07 Cord Grips
	--	691000	691001	691002	691003	691004	691005	691006	691020
(PS)(SS)691B35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

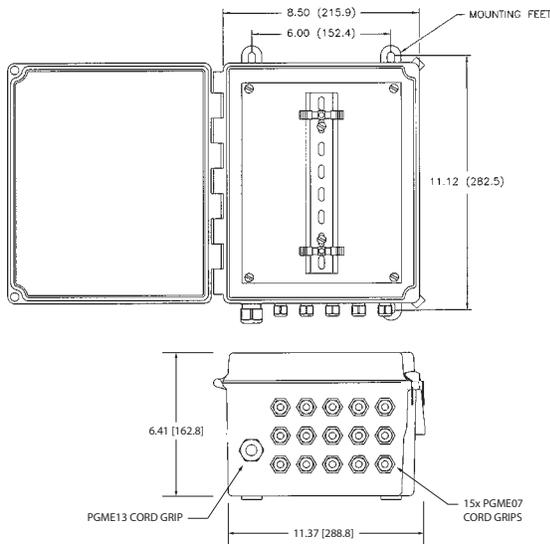
DIN RAIL BOX



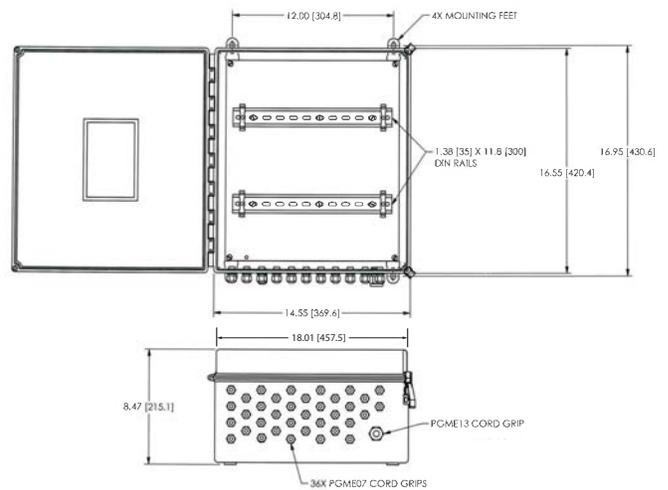
MODELS 682A00 AND 682A10

SPECIFICATIONS		
Model Number	682A00	682A10
Performance		
Transmitter Count (25.4 mm)	9	24
DIN Rail Count	One 9.7" (246 mm)	Two 12" (305 mm)
Environmental		
Enclosure Rating	NEMA 4X/IP66	
Physical		
Housing Material	Fiberglass	
Connection Ports	15 PGME07 Cord Grips 1 PGME13 Cord Grip	36 PGME07 Cord Grips 1 PGME13 Cord Grip
Size (Fiberglass, H x L x W)	10 x 8 x 6 in 254 x 203 x 152 mm	16 x 14 x 8 in 406 x 356 x 203 mm
Weight	4.2 lb 1.9 kg	15 lb 6.8 kg

- Convenient installation location for DIN rail power supplies, vibration transmitters & relay modules
- NEMA 4X / IP66 fiberglass enclosure to prevent water/ dust intrusion



Model 682A00



Model 682A10



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