

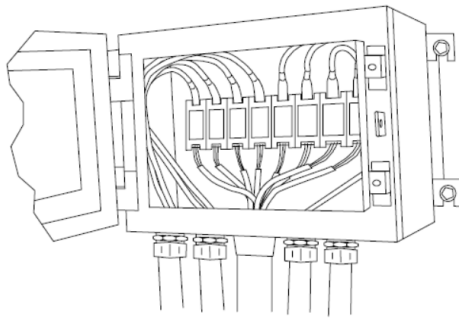
Proximito Sensor and Interface Module Housings

Datasheet

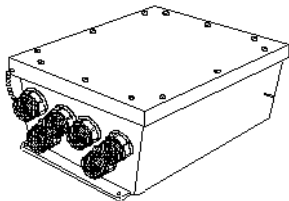
Bently Nevada Machinery Condition Monitoring

141599 Rev. V

Description

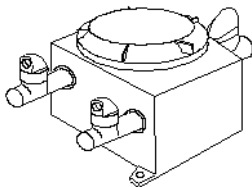


Although Proximito Sensors and interface modules are rugged by design, they are often installed in harsh environments that require an appropriate housing to protect the electrical equipment from damage. In addition, many installations are in hazardous areas, which require a suitable housing for electrical equipment such as the 3300 XL Proximito. We offer a variety of housings that protect our products from environmental damage. When the application requires a corrosion resistant fiberglass housing for an offshore installation, we can supply it, complete with the appropriate conduit fittings and custom mounting plates. The following section provides a brief description of each housing product line, followed by the ordering information.



3300 XL Multi-Purpose Housings

The certified Stainless Steel Water-Resistant Housings meet stringent IP66 and Type 4X environmental ratings for protecting enclosed electronic equipment in harsh conditions. The 304/304L stainless steel construction resists moisture, corrosion, and impacts in virtually all installations and may be hosed down for cleaning when necessary. For customers that require a lockable housing, we offer the Weather-Resistant Lockable housing.



Water- and Corrosion-Resistant Housings

The water- and corrosion-resistant fiberglass housings protect Bently Nevada products from corrosive and wet environments. When properly installed, the fiberglass housings are suitable for outdoor environments because of their resistance to water, dust and corrosion. Fiberglass housings may not be suitable for areas where Radio Frequency Interference (RFI) is present.



Ordering Information



For the detailed listing of country and product specific approvals, refer to the *Approvals Quick Reference Guide* (108M1756) available from Bently.com.

3300 XL Multi-Purpose Housing



These Stainless Steel Water-Resistant Housings are rated for IP66 and Type 4X environmental conditions.

- The **175751** housing can accommodate up to 8 Proximito sensors in the DIN-mount configuration or 6 panel mount Proximito sensors. [See 175751 3300 XL Multi-Purpose Housing Dimensions \(12" x 12" x 6"\) on page 5.](#)
- The **176467** housing can accommodate up to four Proximito Sensors in the DIN-mount configuration or four panel-mount Proximito Sensors. [See 176467 3300 XL Multi-Purpose Housing Dimensions \(12" x 8" x 6"\) on page 8.](#)
- Each housing has three removable gland plates to simplify the installation of conduit fittings and cable gland seals.

Housing Material	304 stainless steel
Gasket Material	Polyurethane
Housing Rating	
North America	Certified to Type 3S, 4, and 4X ratings per UL File E115376
Europe	Certified to IP66 waterproof and dust-proof per IP 66 along with the 7 joule high impact mechanical risk test required by IEC standard IEC/EN 60079-15.

3300 XL Multi-Purpose Housing 12"x12"x6"

175751-AA-BB-CC-DD

A: Transducer Type Option

00	No mounting hardware
01	35mm DIN-rail mount
02	2.00"x2.00" panel mount



Proximito Sensors, Interface Modules, and Velocity-to-Displacement Converters are not included and must be ordered separately



Exercise care when specifying system length to avoid having excess coils of cable inside the housing. This excess cable in the housing may cause chafing and premature failure of the cables.

B: Conduit Fitting Option


[See Conduit Fitting Applications for 175751, 176467, and 330181 on page 11.](#)

00	Without fittings
01	One brass M32 cable gland seal outlet, six brass M25 cable gland seal inlets
02	One brass M32 cable gland seal outlet, eight brass M25 cable gland seal inlets
03	One aluminum 1¼ - 1½ NPT conduit outlet, six aluminum ¾ - 14 NPT conduit inlets, six aluminum ¾ - 14 to ½ - 14 NPT reducers
04	One aluminum 1¼ - 1½ NPT conduit outlet, eight aluminum ¾ - 14 NPT conduit inlets, eight aluminum ¾ - 14 to ½ - 14 NPT reducers.
05	One 316 stainless steel 1¼ - 1½ NPT conduit outlet, six 316 stainless steel ¾ - 14 NPT conduit inlets, six 303 stainless steel ¾ - 14 to ½ - 14 NPT reducers.
06	One 316 stainless steel 1¼ - 1½ NPT conduit outlet, eight 316 stainless steel ¾ - 14 NPT conduit inlets, eight 303 stainless steel ¾ - 14 to ½ - 14 NPT reducers.
07	One chrome-plated zinc 1¼ - 1½ NPT conduit outlet, six chrome-plated zinc ¾ - 14 NPT conduit inlets, six 303 stainless steel ¾ - 14 to ½ - 14 NPT reducers.
08	One chrome-plated zinc 1¼ - 1½ NPT conduit outlet, eight chrome-plated zinc ¾ - 14 NPT conduit inlets, eight 303 stainless steel ¾ - 14 NPT to ½ - 14 NPT reducers.

C: Terminal Mounting Block Option

00	No terminal blocks
01	4 DIN rail terminal blocks
02	8 DIN rail terminal blocks
03	12 DIN rail terminal blocks
04	16 DIN rail terminal blocks
05	20 DIN rail terminal blocks

06	24 DIN rail terminal blocks
07	28 DIN rail terminal blocks
08	32 DIN rail terminal blocks
21	1 terminal block
22	2 terminal blocks
23	3 terminal blocks
24	4 terminal blocks
25	5 terminal blocks
26	6 terminal blocks

 Each DIN rail terminal block accepts only one wire. The standard terminal blocks each accept four wires. Thus, four DIN rail terminal blocks equal one standard terminal block.

D: Labeling Option


00	Part number only (No Approvals)
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3300 XL Multi-Purpose Housing 12"x8"x6"

176467 - AA-BB-CC-DD

A: Transducer Type Option

00	No mounting hardware
01	35mm DIN-rail mount
02	2.00"x2.00" panel mount

 Proximitor Sensors, Interface Modules, and Velocity-to-Displacement Converters are not included and must be ordered separately

 Exercise care when specifying system length to avoid having excess coils of cable inside the housing. This excess cable in the housing may cause chafing and premature failure of the cables.

B: Conduit Fitting Option

[See Conduit Fitting Applications for 175751, 176467, and 330181 on page 11.](#)

00	Without fittings
09	Four aluminum 3/4"-14 NPT to 1/2"-14 NPT, Five


	aluminum 3/4" 14 NPT, one aluminum 1 1/4" 11 1/2" NPT.
10	One brass M32 cable gland outlet, four brass M25 cable gland inlets.
11	One 316 stainless steel 1 1/4" 11 1/2" NPT conduit outlet, four 316 stainless steel 3/4" 14 NPT conduit inlets, four 303 stainless steel 3/4" 14 to 1/2" 14 NPT reducers
12	12 One chrome-plated zinc 1 1/4" 11 1/2" NPT conduit outlet, four chrome-plated zinc 3/4" 14 NPT conduit inlets, four 303 stainless steel 3/4" 14 to 1/2" 14.

C: Terminal Mounting Block Option

00	No terminal blocks
01	4 DIN rail terminal blocks
02	8 DIN rail terminal blocks
03	12 DIN rail terminal blocks
04	16 DIN rail terminal blocks
21	1 terminal block
22	2 terminal blocks
23	3 terminal blocks
24	4 terminal blocks

D: Labeling Option

00	Part number only (No Approvals)
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 Each DIN rail terminal block accepts only one wire. The standard terminal blocks each accept four wires. Thus, four DIN rail terminal blocks equal one standard terminal block.

Accessories

Part Number	Description
137936-01	Brass cable gland seal, M32
137937-01	Brass cable gland seal, M25
03818111	Nickel-plated brass conduit fitting, PG21 x M20
03839130	Aluminum conduit fitting, ¾ -14 NPT
03839132	Aluminum conduit fitting, 1¼ -11½ NPT
03850021	Aluminum reducer, ¾ -14 to ½ -14 NPT
03813103	Chrome-plated zinc conduit fitting, ¾ -14 NPT
03813105	Chrome-plated zinc conduit fitting, 1-11½ NPT
03813106	Chrome-plated zinc conduit fitting, 1¼ -11½ NPT
03818099	AISI 316 stainless steel conduit fitting, 1¼ -11½ NPT
03818100	AISI 316 stainless steel conduit fitting, ¾ -14NPT
26650-01	AISI 303 stainless steel reducer, ¾ -14 to ½ -14 NPT
26650-03	AISI 303 stainless steel reducer, 1¼ -11½ to 1-11½ NPT
03818102	AISI 316 stainless steel conduit fitting, PG21 x M20
03818103	AISI 316 stainless steel conduit fitting, PG21 x PG11
03818104	AISI 303 stainless steel conduit seal, PG11
03818105	AISI 316 stainless steel conduit seal, M20
103537-01	Terminal Mounting Block This 4-wire terminal mounting block includes screws and is easily installed. Terminal mounting blocks are used to connect transducer cables to field wiring that is routed back to the monitoring system.
01691029	DIN-rail Terminal Strip
01691028	DIN-rail Terminal Strip Cover The DIN-rail terminal strip with cover is a single wire terminal strip that snaps onto a 35 mm DIN rail.
04490104	Conduit Seal Punch Tool

Part Number	Description
	A punch tool set is used when installing conduit seals. The conduit seals come with a rubber insert, with markings for where to "punch" holes. Use the punch tool set to punch the number of holes you need for the cables going through each conduit seal.

Graphs and Figures

3300 XL Multi-Purpose Housing

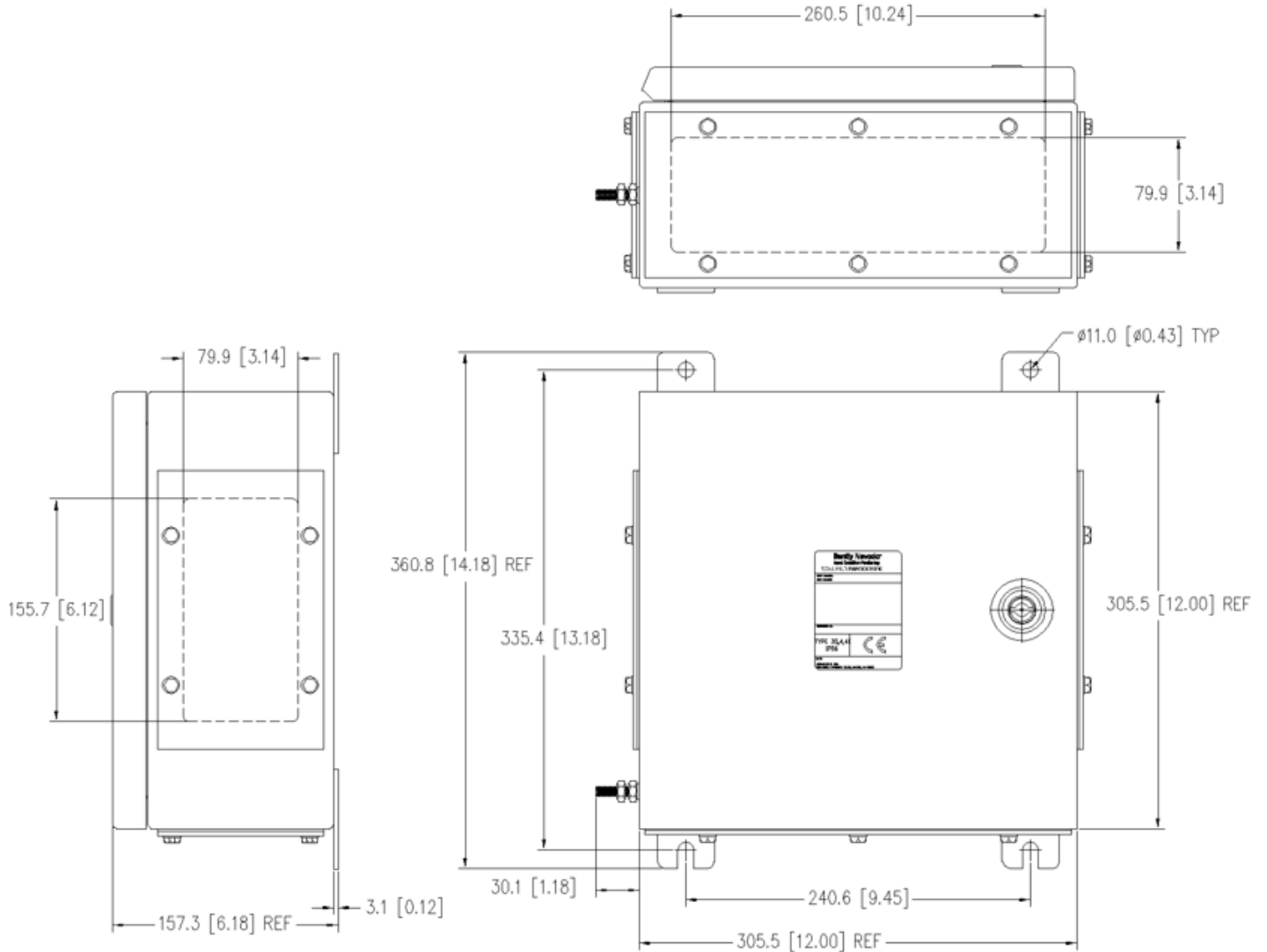


Figure 1: 175751 3300 XL Multi-Purpose Housing Dimensions (12" x 12" x 6")

Dimensions are in millimeters (inches).

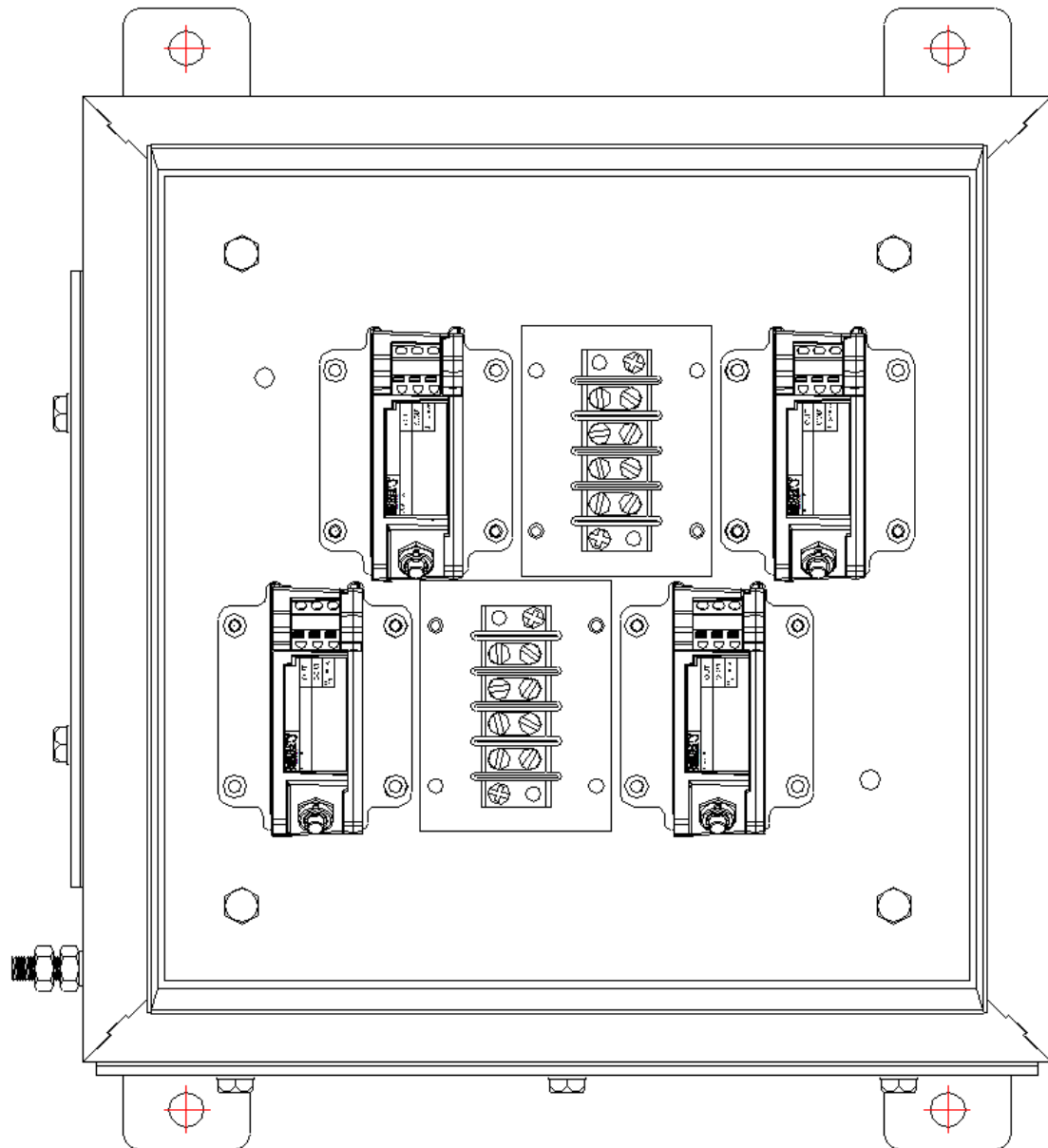


Figure 2: 175751 Panel Mount Orientation

Panel mount Proximitors and Terminal blocks share the same mounting hole pattern; therefore, any combination of 6 Proximitors and/or Terminal Blocks will work with this housing when panel mounting hardware is ordered (-AA option = -02).

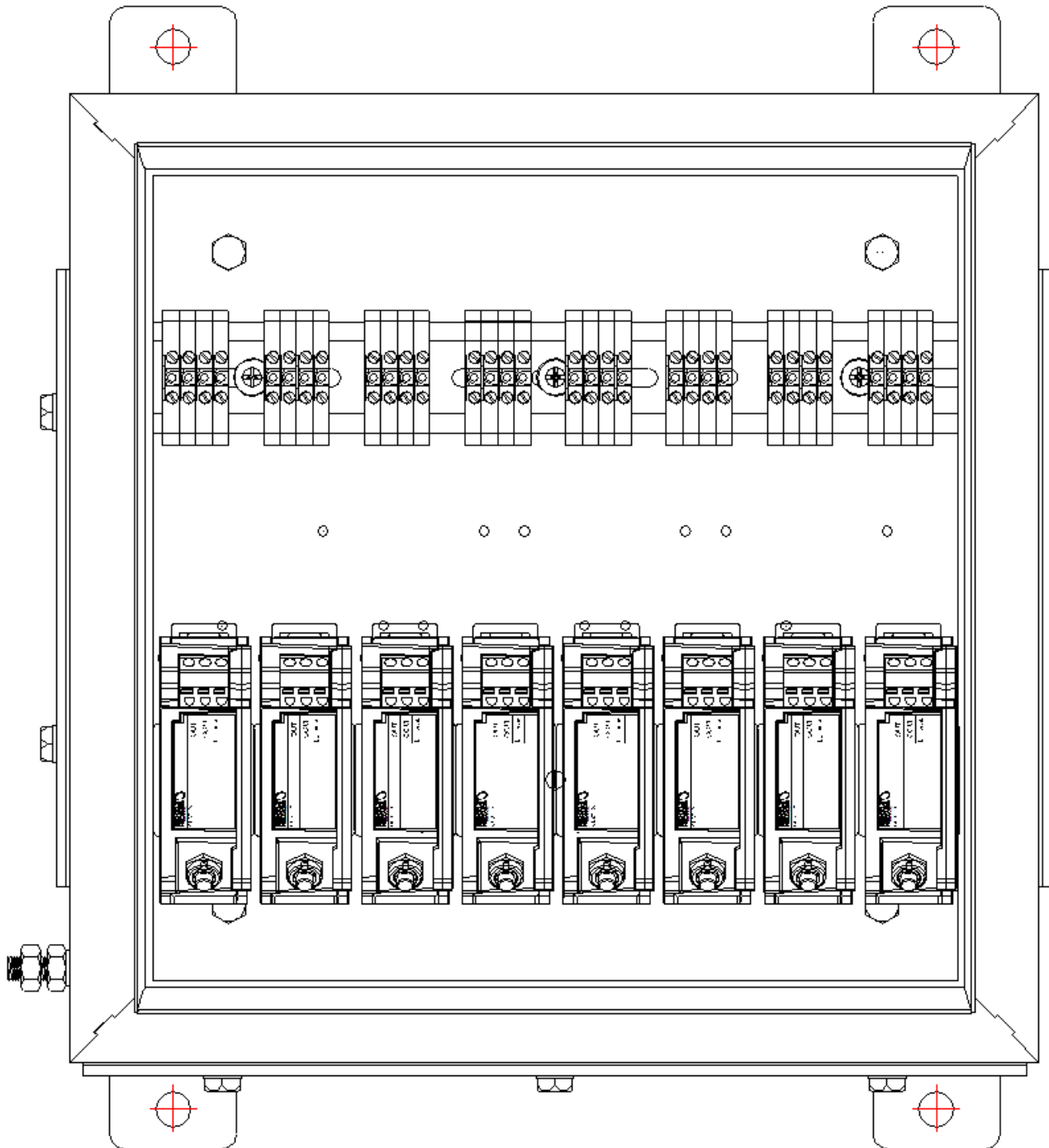


Figure 3: 175751 Sample DIN Mount Orientation

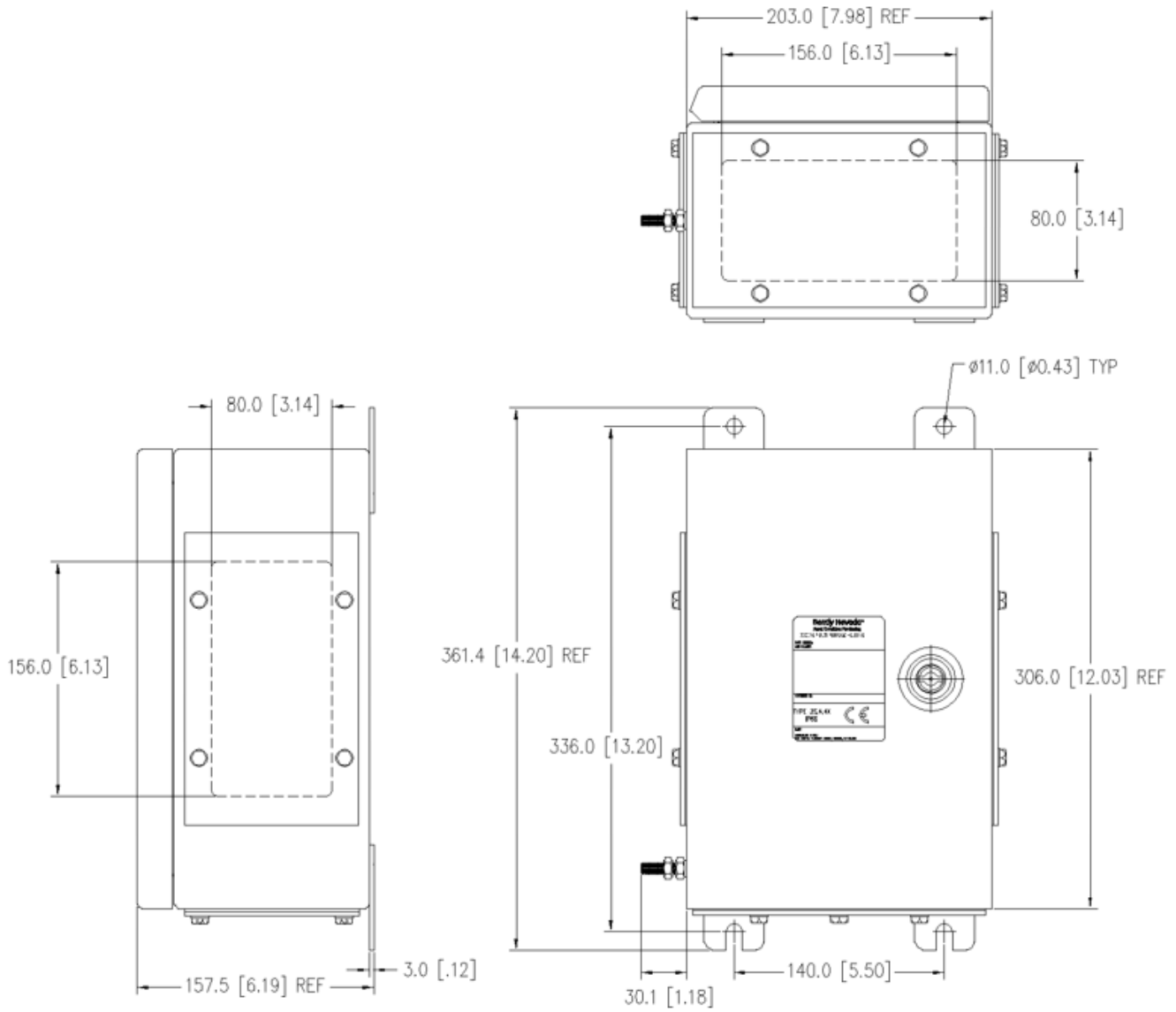


Figure 4: 176467 3300 XL Multi-Purpose Housing Dimensions (12" x 8" x 6")

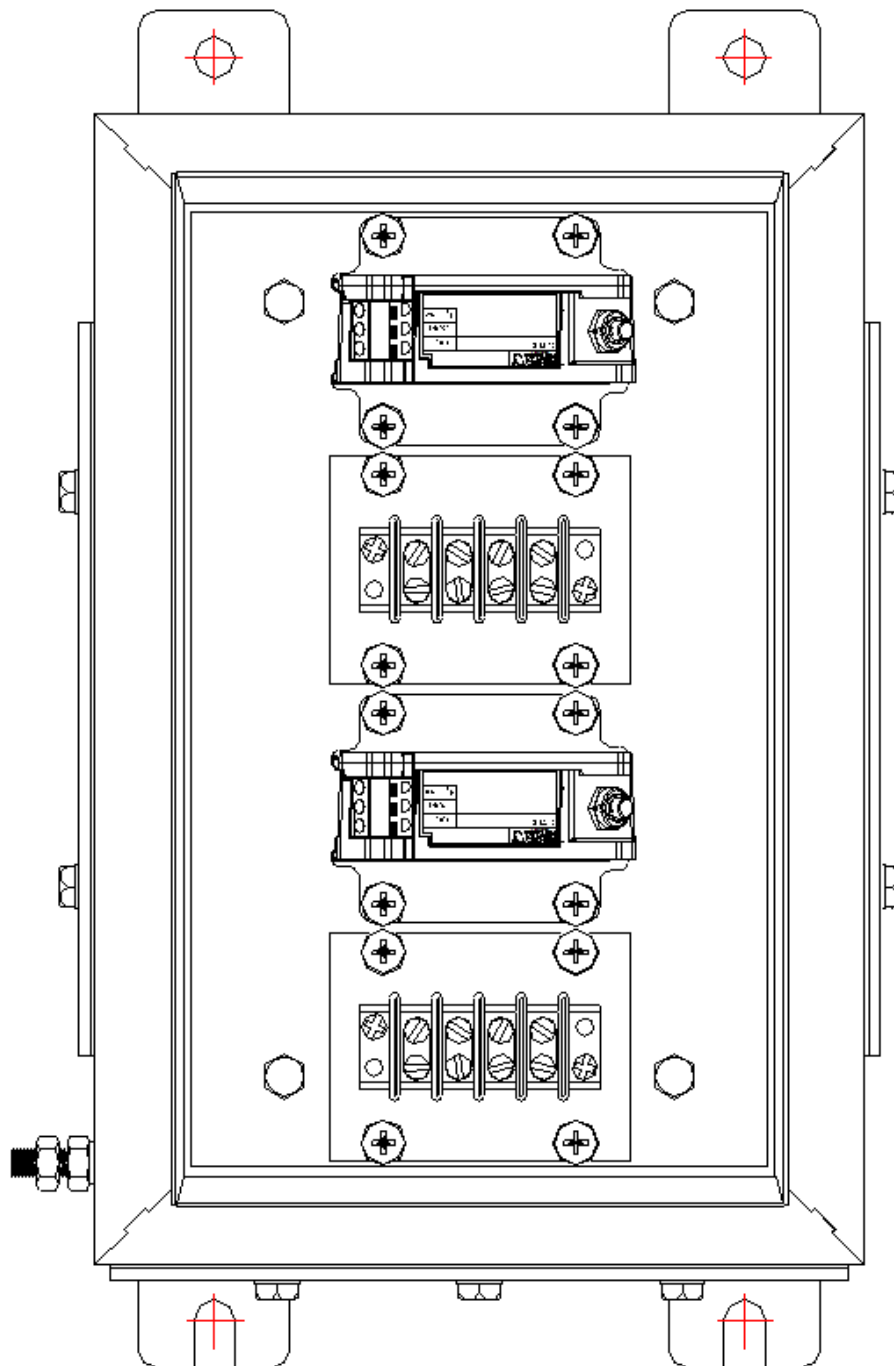


Figure 5: 176467 Panel Mount Orientation

Panel mount Proximitors and Terminal blocks share the same mounting hole pattern; therefore, any combination of 4 Proximitors and/or Terminal Blocks will work with this housing when panel mounting hardware is ordered (-AA option = -02).

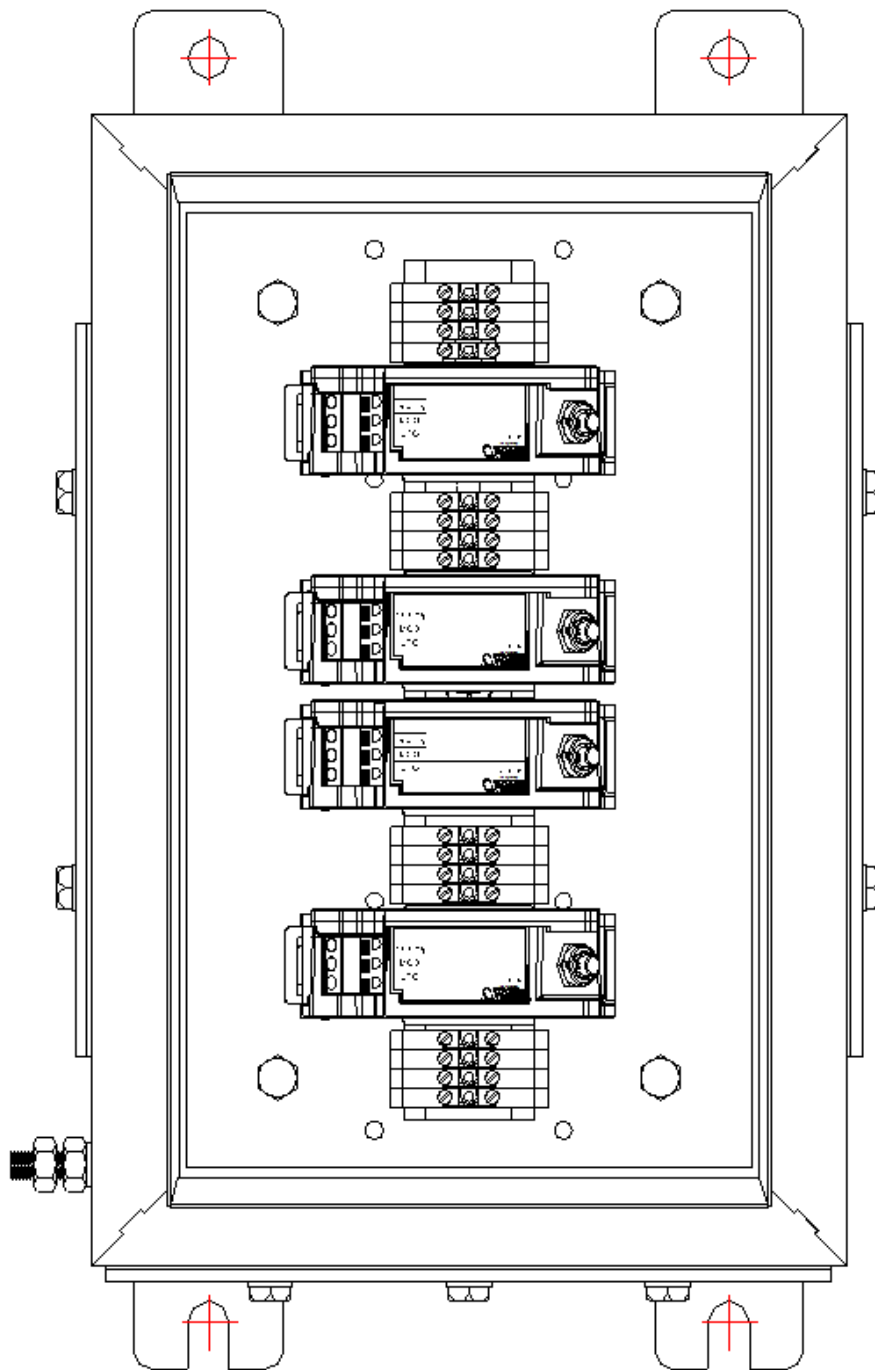


Figure 6: 176467 Sample DIN Mount Orientation