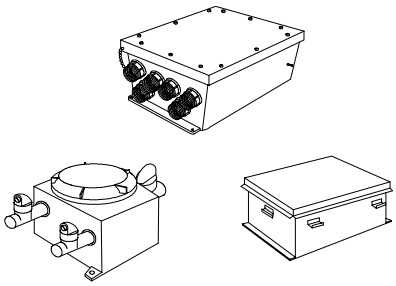
Specifications and Ordering Information

Proximitor® Sensor / interface module/ VDC Housings



Description

Although Proximitor® Sensors and interface modules are rugged by design, these units and their electrical connections should be secured and protected when placed near rotating machinery. Also, explosion-proof housings may be necessary for electrical equipment placed in hazardous areas.

Bently Nevada offers three types of housings to protect Proximitor® Sensors, interface modules and velocity-to-displacement converters (VDCs) from adverse environmental conditions. Explosion- proof, water-resistant and water and corrosion-resistant units are available.

Explosion-proof and water-resistant housing
Housings can be ordered with non-conductive mounting plates to electrically isolate the Proximitor®Sensors, interface modules and VDCs from the housings. When properly installed, the explosion-proof housing is designed for use in the following: Class 1, Division 1 and 2, Groups C and D. Class II, Division 1 and 2, Groups E, F and G. Class III, Division 1 and 2. Nema 3, 4, 4x, 7 B C D, 9 E F G.

Water-resistant housing
The housings are constructed of 304L stainless steel and are designed to meet NEMA 4 specifications when properly installed.

Water and corrosion-resistant housing
Constructed of fiberglass, the water and corrosion-resistant housing protects Proximitor® Sensors, interface modules and VDCs from corrosive and wet environments. When properly installed, the fiberglass housings are designed for outdoor environments because of their resistance to water, dust, corrosion and sleet. Fiberglass housings may not be suitable for areas where Radio Frequency Interference (RFI) is present.

Transducer type options available for all three housings
Housing option (A) allows you to order transducer mounting hardware. The transducer type option includes mounting screws and optional isolation plates to correctly mount and isolate your Proximitor® Sensors, interface modules and VDCs.

Specifications

Table 1 Dimensions: Explosion-proof Housing

Part Number	Maximum Proximitor® Sensor Capacity	Overall Dimensions (with lid) Length	Width	Height	Mounting Dimensions A	B
72341, BA72341, CA72341	2	229 (9.00)	181 (7.12)	169 (6.66)	206 (8.12)	149 (5.87)
72342, BA72342, CA72342	4	264 (10.4)	257 (10.1)	186 (7.31)	232 (9.12)	245 (9.63)
72343, BA72343, CA72343	6	302 (11.9)	274 (10.8)	183 (7.19)	267 (10.5)	241 (9.50)

Table 2 Dimensions: Water-resistant Housing

Part Number	Maximum Proximitor® Sensor Capacity	Overall Dimensions (with lid) Length	Width	Height	Mounting Dimensions A	B
72381, BA72381	2	250 (9.84)	199 (7.84)	101 (3.97)	226 (8.88)	102 (4.00)
72382, BA72382	4	300.7 (11.84)	250 (9.84)	112 (4.42)	276.4 (10.88)	152 (6.00)
72383, BA72383	6	351.6 (13.84)	300.7 (11.84)	140 (5.52)	327.2 (12.88)	203 (8.00)

Table 3 Dimensions: Water and Corrosion-resistant Housing

Part Number	Maximum Proximitor® Sensor Capacity	Overall Dimensions (with lid) Length	Width	Height	Mounting Dimensions A	B
24584	2	245 (9.63)	187 (7.38)	122 (4.81)	226 (8.88)	102 (4.00)
24585	4	295.1 (11.62)	238.3 (9.38)	108.0 (4.25)	273.0 (10.75)	152.4 (6.00)
24586	6	345.9 (13.62)	289.1 (11.38)	133.4 (5.25)	323.9 (12.75)	203.2 (8.00)

Ordering Information

Explosion-Proof Housings

72341-AXX-BXX **2-unit housing**
BA72341-AXX-BXX **2-unit housing, European approvals**
CA72341-AXX-BXX **2-unit housing, North American approvals**

Option Descriptions

A: Transducer Type Option[1]

- **0 0** No mounting hardware
- **0 2** 3000 or 7200 Proximitor® Sensors, VDCs and interface modules
- **0 3** 3300 Proximitor® Sensors or 7200 35 mm Proximitor® Sensors
- **1 0** 3300 XL Proximitor® Sensors, panel mount

B: Fitting Option

- **0 1** No fittings supplied
- **0 2** One 1¼ -11½ in NPT outlet fitting, one ¾-14 NPT inlet fitting
- **0 3** One 1¼ -11½ NPT outlet fitting, two ¾-14 NPT inlet fittings
- **0 4** One ¾-14 NPT outlet fitting, one ½-14 NPT inlet fitting
- **0 5** One ¾-14 NPT outlet fitting, two ½-14 NPT inlet fittings

72342-AXX-BXX 4-unit housing
BA72342-AXX-BXX 4-unit housing, European Approvals
CA72342-AXX-BXX 4-unit housing, North American approvals

Option Descriptions

A: Transducer Type Option[1]

- **0 0** No mounting hardware
- **0 2** 3000 or 7200 Proximitor® Sensors, VDCs and interface modules
- **0 3** 3300 Proximitor® Sensors or 7200 35 mm Proximitor® Sensors
- **1 0** 3300 XL Proximitor® Sensors, panel mount
- **1 1** 3300 XL Proximitor® Sensors, DIN mount

B: Fitting Option

- **0 1** No fittings supplied
- **0 2** One 1¼ -11½ NPT outlet fitting, one ¾-14 NPT inlet fitting
- **0 3** One 1¼ -11½ NPT outlet fitting, two ¾-14 NPT inlet fittings
- **0 4** One 1¼ -11½ NPT outlet fitting, three ¾-14 NPT inlet fittings
- **0 5** One 1¼ -11½ NPT outlet fitting, four ¾-14 NPT inlet fittings
- **0 6** One ¾-14 NPT outlet fitting, one ½-14 NPT inlet fitting
- **0 7** One ¾-14 NPT outlet fitting, two ½-14 NPT inlet fittings
- **0 8** One ¾-14 NPT outlet fitting, three ½-14 NPT inlet fittings
- **0 9** One ¾-14 NPT outlet fitting, four ½-14 NPT inlet fittings

72343-AXX-BXX 6-unit housing
BA72343-AXX-BXX 6-unit housing, European Approvals
CA72343-AXX-BXX 6-unit housing, North American approvals

Option Descriptions

A: Transducer Type Option[1]

- **0 0** No mounting hardware
- **0 2** 3000 or 7200 Proximitor® Sensors, VDCs and interface modules
- **0 3** 3300 Proximitor® Sensors or 7200 35 mm Proximitor® Sensors
- **1 4** 3300 XL Proximitor® Sensors, panel mount
- **1 5** 3300 XL Proximitor® Sensors, DIN mount

B: Fitting Option

- **0 1** No fittings supplied
- **0 2** One 1¼ -11½ NPT outlet fitting, one ¾-14 NPT inlet fitting
- **0 3** One 1¼ -11½ NPT outlet fitting, two ¾-14 NPT inlet fittings
- **0 4** One 1¼ -11½ NPT outlet fitting, three ¾-14 NPT inlet fittings
- **0 5** One 1¼ -11½ NPT outlet fitting, four ¾-14 NPT inlet fittings
- **0 6** One 1¼ -11½ NPT outlet fitting, five ¾-14 NPT inlet fittings
- **0 7** One 1¼ -11½ NPT outlet fitting, six ¾-14 NPT inlet fittings
- **0 8** One ¾-14 NPT outlet fitting, one ½-14 NPT inlet fitting
- **0 9** One ¾-14 NPT outlet fitting, two ½-14 NPT inlet fittings
- **1 0** One ¾-14 NPT outlet fitting, three ½-14 NPT inlet fittings
- **1 1** One ¾-14 NPT outlet fitting, four ½-14 NPT inlet fittings
- **1 2** One 1¼ -11½ NPT outlet fitting, five ½-14 NPT inlet fittings
- **1 3** One 1¼ -11½ NPT outlet fitting, six ½-14 NPT inlet fittings

Water-resistant Stainless Steel Housings

72381-AXX-BXX-XX 2-unit housing
BA72381-AXX-BXX-CXX 2-unit housing, European approvals

Option Descriptions

A: Transducer Type Option[1]	**0 0**	No mounting hardware
	0 2	3000 or 7200 Proximitor® Sensors, VDCs and interface modules
	0 3	3300 Proximitor® Sensors or 7200 35 mm Proximitor® Sensors
	1 0	3300 XL Proximitor® Sensors, panel mount
B: Conduit Fitting Option	**0 0**	Without fittings
	0 2	With fittings
C: Terminal Mounting Block Option	**0 0**	None
	0 1	One
	0 2	Two

72382-AXX-BXX-CXX 4-unit housing
BA72382-AXX-BXX-CXX 4-unit housing, European approvals

Option Descriptions

A: Transducer Type Option[1]	**0 0**	No mounting hardware
	0 2	3000 or 7200 Proximitor® Sensors, VDCs and interface modules
	0 3	3300 Proximitor® Sensors or 7200 35 mm Proximitor® Sensors
	1 0	3300 XL Proximitor® Sensors, panel mount
B: Conduit Fitting Option	**0 0**	Without fittings
	0 3	With fittings
C: Terminal Mounting Block Option	**0 0**	None
	0 1	One
	0 2	Two
	0 3	Three
	0 4	Four

72383-AXX-BXX-CXX 6-unit housing
BA72383-AXX-BXX-CXX 6-unit housing, European approvals

Option Descriptions

A: Transducer Type Option[1]	**0 0**	No mounting hardware
	0 2	3000 or 7200 Proximitor® Sensors, VDCs and interface modules
	0 3	3300 Proximitor® Sensors or 7200 35 mm Proximitor® Sensors
	1 0	3300 XL Proximitor® Sensors, panel mount
B: Conduit Fitting Option	**0 0**	Without fittings
	0 4	With fittings
C: Terminal Mounting Block Option	**0 0**	None
	0 1	One
	0 2	Two
	0 3	Three
	0 4	Four
	0 5	Five
	0 6	Six

Water and Corrosion-resistant Fiberglass Housings

24584-AXX-BXX 2-unit housing
24585-AXX-BXX 4-unit housing
24586-AXX-BXX 6-unit housing

Option Descriptions

A: Transducer Type Option[1]	**0 0**	No mounting hardware
	0 2	3000 or 7200 Proximitor® Sensors, VDCs and interface modules
	0 3	3300 Proximitor® Sensors
	1 0	3300 XL Proximitor® Sensors, panel mount
B: Fitting Option	**0 0**	Without fittings and mounting holes
	0 1	With fittings and reducers
	0 2	With cable grips and cable seals

Notes:
1. Proximitor® Sensors, interface modules and Velocity-to-displacement Converters are not included and must be ordered separately.

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Dimensional diagrams

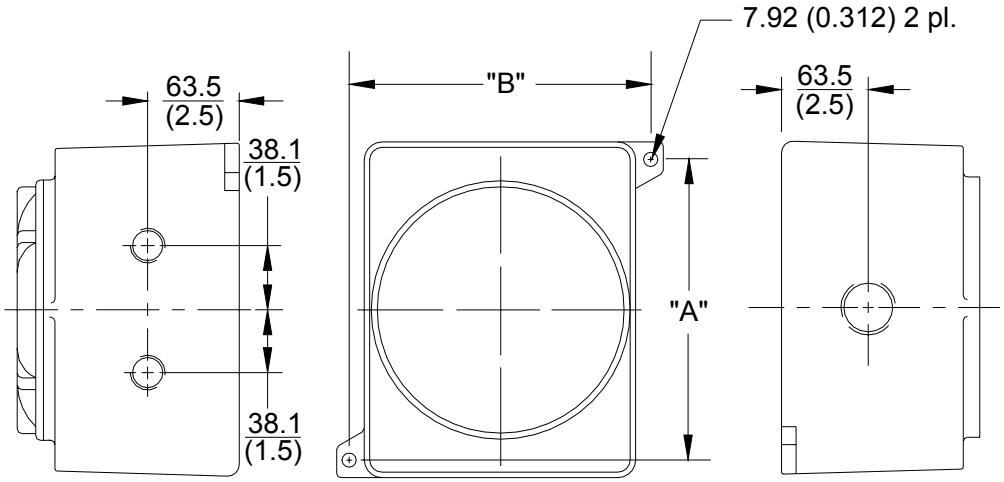

Figure 1 – 72341, BA72341, CA72341 Two-unit explosion proof housing

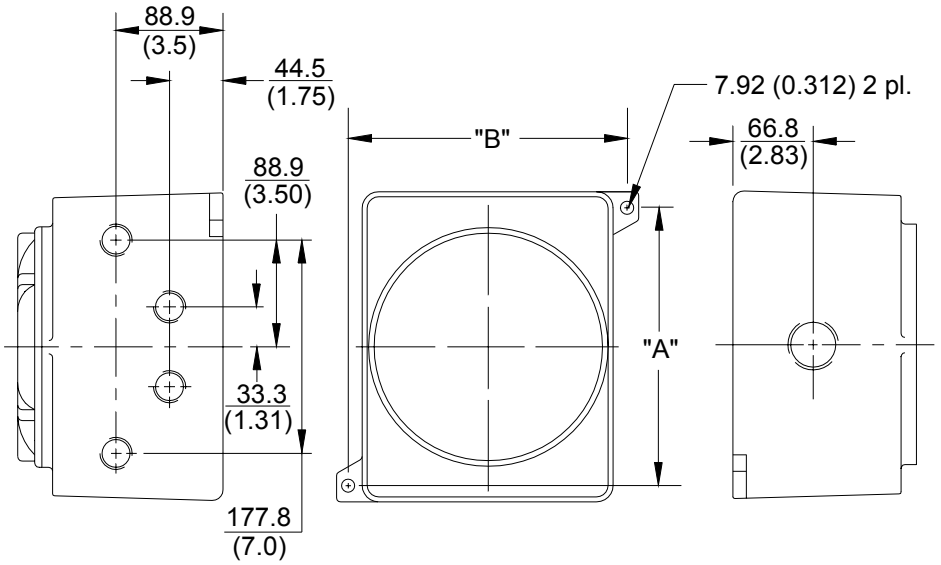

Figure 2 – 72342, BA72342, CA72342 Four-unit explosion proof housing

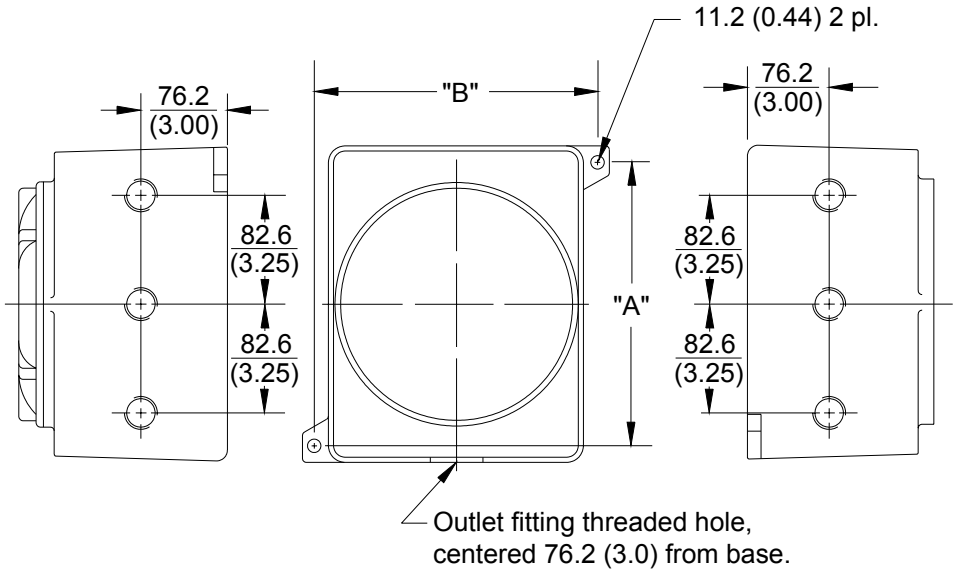

Figure 3 – 72343, BA72343, CA72343 Six-unit explosion proof housing

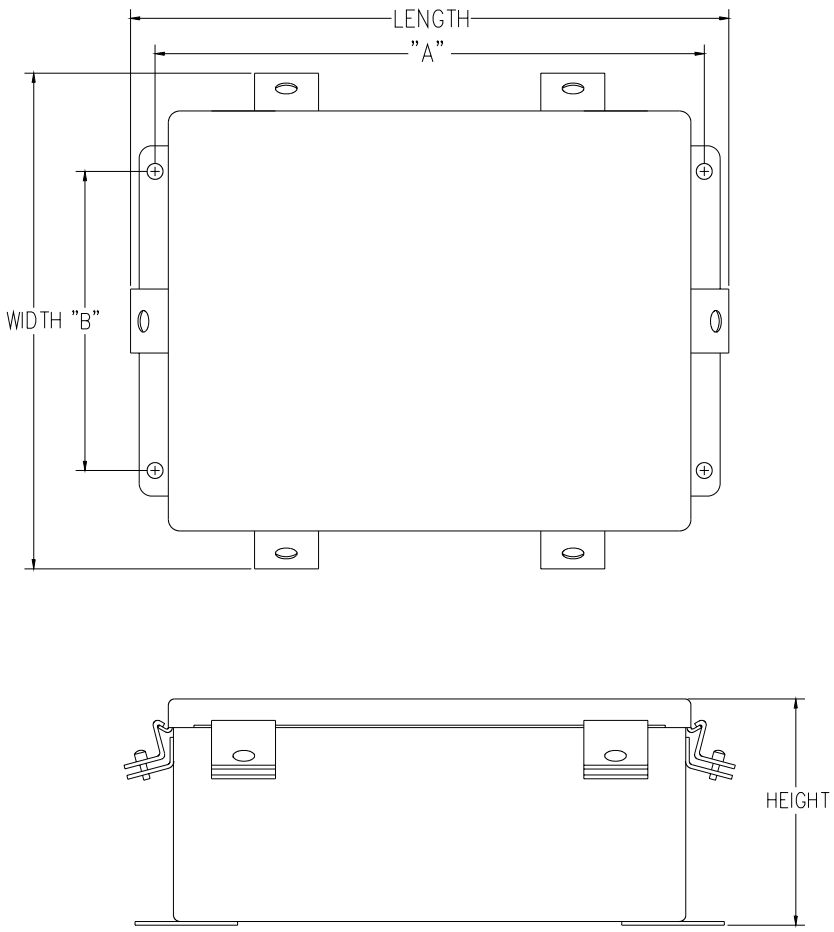

Figure 4 - 72381, 72382, 72383, BA72381, BA72382 and BA72383 Stainless Steel Housing Dimensions

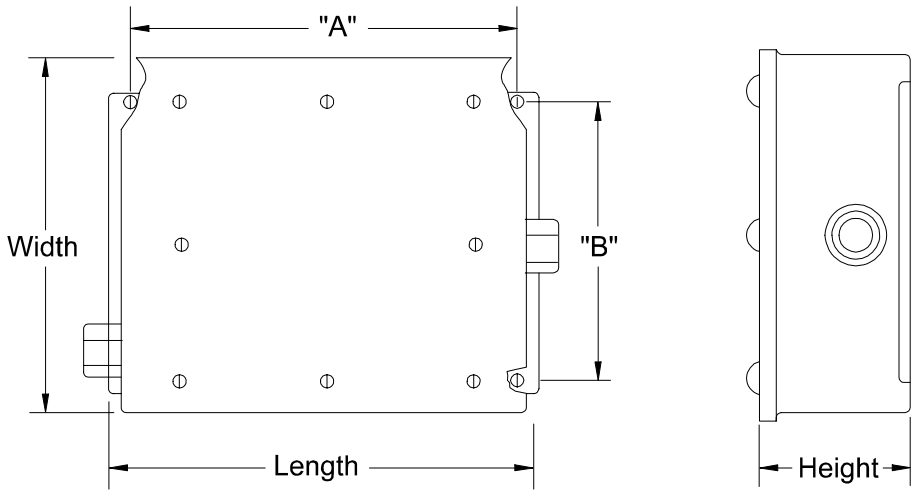

Figure 5 – 24584, 24585 and 24586 Fiberglass Housing Dimensions

Note: Dimensions for all drawings are in millimetres (inches)