

Examples

3.7 in (94 mm) = **037**

22.4 in (569 mm) = **224**



Probe P/N and S/N may be displayed on a flag label for some combinations of the C plus D options where only a small section of the probe cable is visible.



For probe penetration lengths between 1.0 and 2.0 inches, it may be necessary to counter bore the machine case to reduce probe side view or rear view effects.



If you select a probe penetration length (C plus D) greater than 300 mm (12 in), you must add sleeve support near the probe to prevent resonance from occurring. Adjustment range of probe penetration option D is 13 mm (± 0.5 in). For the maximum value of C plus D, see [Figure 1: 21000/CA21000 Proximity Probe Housing Assembly on page 16](#).

E: Fittings

00	Without fittings
01	One 3/4-14 NPT explosion-proof fitting One 3/4-14 NPT plug
02	Two 3/4-14 NPT explosion-proof fittings
03	One 3/4-14 NPT plug One 3/4-14 to 1/2-14 NPT reducer One cable seal grip with grommets for the following cable sizes: • 1/8 to 3/16 inches • 1/4 to 5/16 inches • 5/16 to 3/8 inches
04	One 3/4-14 NPT plug only



Although explosion-proof fittings are available for all housings, only CA versions of the housing are rated as explosion-proof by CSA when ordered with the **E:00**, **E:01**, **E:02**, or **E:04** options.

F: Mounting Thread

01	As cast without threads
	3/4-14 NPT
02	Must be ordered if Standoff Adapter Length option is not 00 .
04	1/2-14 BSP

24701-AA-BB-CC-DDD-EE-FF

A: Probe with Connector

00	Probe not required
14	420 nuclear
16	3300 XL 8mm probe
26	3300 XL NSv probe
27	3300 XL NSv probe, with approval option
28	3300 XL 8mm, with approval option
29	3300 XL 11mm
30	3300 XL 11mm, with approval option
31	3300 XL NSv with connector protector
32	3300 XL NSv with connector protector and approval option
33	3300 XL 8mm with connector protector
34	3300 XL 8mm with connector protector and approval option

35	3300 XL 11mm with connector protector
36	3300 XL 11mm with connector protector and approval option
37	3300 XL 8mm ETR, with approval option

B: Probe Cable Length

00	Probe cable not required
05	20 in (0.5 m)
10	39 in (1.0 m)
12	12.0 ft (3.6 m)
18	18.0 ft (3.6 m)
24	24.0 ft (7.3 m)
30	24.0 ft (7.3 m)
36	36.0 ft (10.9 m)

C: Standoff Adapter (Option C Dimension)

15	Minimum length 1.5 in (38 mm)
75	Maximum length 7.5 in (191 mm)
	Examples 1.5 in (38 mm) = 15 No standoff adapter = 00
	Recommendation Order in increments of 0.5 in (13 mm)

D: Probe Penetration (Option D Dimension)

010	Minimum length 1.0 in (25.4 mm)
Other	See Figure 2: 24701/CA24701 Proximity Probe Housing Assembly on page 17.

Example

3.7 in (94 mm) = **037**
22.4 in (569 mm) = **224**

Recommendation

Order in increments of 0.1 in (3 mm)



Probe P/N and S/N may be displayed on a flag label for some combinations of the C plus D options where only a small section of the probe cable is visible.



For probe penetration lengths between 1.0 and 2.0 inches, it may be necessary to counter bore the machine case to reduce probe side view or rear view effects.



If you select a probe penetration length (C plus D) greater than 300 mm (12 in), you must add sleeve support near the probe to prevent resonance from occurring. Adjustment range of probe penetration option D is 13 mm (± 0.5 in). For the maximum value of C plus D, see [Figure 2: 24701/CA24701 Proximity Probe Housing Assembly on page 17.](#)

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02	Two 3/4-14 NPT explosion-proof fittings

03	One 3/4-14 NPT plug One 3/4-14 to 1/2-14 NPT reducer One cable seal grip with grommets for the following cable sizes: • 1/8 to 3/16 inches • 1/4 to 5/16 inches • 5/16 to 3/8 inches
04	One 3/4-14 NPT plug only



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F: Mounting Thread

01	As cast without threads
02	3/4-14 NPT (see note [1] below)  Must be ordered if Standoff Adapter Length Option is not 00.
03	1-11 1/2 NPT (see note [1] below)
04	1/2-14 BSP
05	7/8-14 UNF-2A



(1) For CA21000 housing, option F must be 02. Options 02 and 03 for mounting threads have more threads than standard NPT threads. They have been machined to have approximately 5 - 7 full threads to increase mounting strength and stiffness.

Explosion-Proof Housing Assemblies



For CA21000 housing, option F must be 02. Options 02 and 03 for mounting threads have more threads than standard NPT threads. They have been machined to have approximately 5 - 7 full threads to increase mounting strength and stiffness.

CA21000-AA-BB-CC-DDD-EE-F02



Options **A:00** and **B:00** are linked. If you choose **A:00**, you must also select **B:00**.

A: Probe with Connector

00	Probe not required
01	190 series, CSA, BNPS connector
02	190 series, CSA, API connector
27	3300 XL NSv, multiple approval
28	3300 XL 8mm, multiple approval
30	3300 XL 11mm, multiple approval
32	3300 XL NSv with connector protector, multiple approval
34	3300 XL 8mm with connector protector, multiple approval
36	3300 XL 11mm with connector protector, multiple approval

B: Probe Cable Length

05	0.5 meter (20 inches)
10	1.0 meter (39 inches)

C: Standoff Adapter (Option C Dimension)

15	Minimum length 1.5 in (38 mm)
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75	Maximum length 7.5 in (191 mm)
	Example 1.5 in (38 mm) = 15 No Standoff adapter = 00
	Recommendation Order in increments of 0.5 in (13 mm)

D: Probe Penetration (Option D Dimension)

010	Minimum length 1.0 in (25.4 mm)
Other	See Figure 1: 21000/CA21000 Proximity Probe Housing Assembly on page 16 .
	Example 3.7 in (94 mm) = 037 22.4 in (569 mm) = 224
	Recommendation Order in increments of 0.1 in (3 mm)



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If you select a probe penetration length (C plus D) greater than 300 mm (12 in), you must add sleeve support near the probe to prevent resonance from occurring. Adjustment range of probe penetration option D is 13 mm (± 0.5 in). For the maximum value of C plus D, see [Figure 1: 21000/CA21000 Proximity Probe Housing Assembly on page 16](#).

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04	One 3/4-14 NPT plug only



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When ordering a proximator and an extension cable with the housing, choose a probe with matching approval options.



You can only order probes for CA21000 or CA24701 with multiple approvals. To order CA versions with no probe, select the A:00 option.

CA24701-AA-BB-CC-DDD-EE-FF

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01	190 series, CSA, BNPS connector
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75	Maximum length 7.5 in (191 mm)

Examples

1.5 in (38 mm) = **15**
No standoff adapter = **00**

Recommendation

Order in increments of 0.5 in (13 mm)

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Other	See Figure 2: 24701/CA24701 Proximity Probe Housing Assembly on page 17 .

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