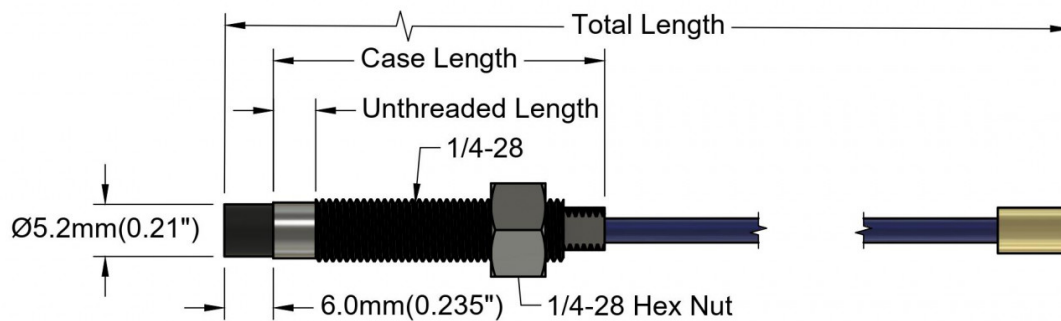


3300 5mm Specifications and Dimensions

| | |
|--|--|
| Extension Cable Armor (optional) | Flexible AISI 302 SST with/without FEP outer jacket |
| Tensile Strength (maximum rated) | 220 N (50 lb) probe case to probe lead. 220 N (50 lb) at probe lead to extension cable connectors. 220 N (50 lb) probe case to stainless steel armor |
| Connector material | Gold-plated brass |
| Recommended Connector Torque | Hand tightened |
| Maximum torque | 0.56 N•m (5 in•lb) |
| Minimum bend Radius (with or without SS armor) | 25.4 mm (1.0 in) |
| Probe Temperature Range Operating Temperature | -34°C to +177°C (-30°F to +350°F) |
| Storage Temperature | -51°C to +177°C (-60°F to +350°F) |
| Extension Cable Operating and Storage Temperature | -51°C to +177°C (-60°F to +350°F) |
| Relative Humidity | 100% condensing, non-submersible when connectors are protected |

Imperial/US



PROJECT
3300_5MM

TITLE
MS330171/MS330172

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/10/2022

SIZE

A

SCALE

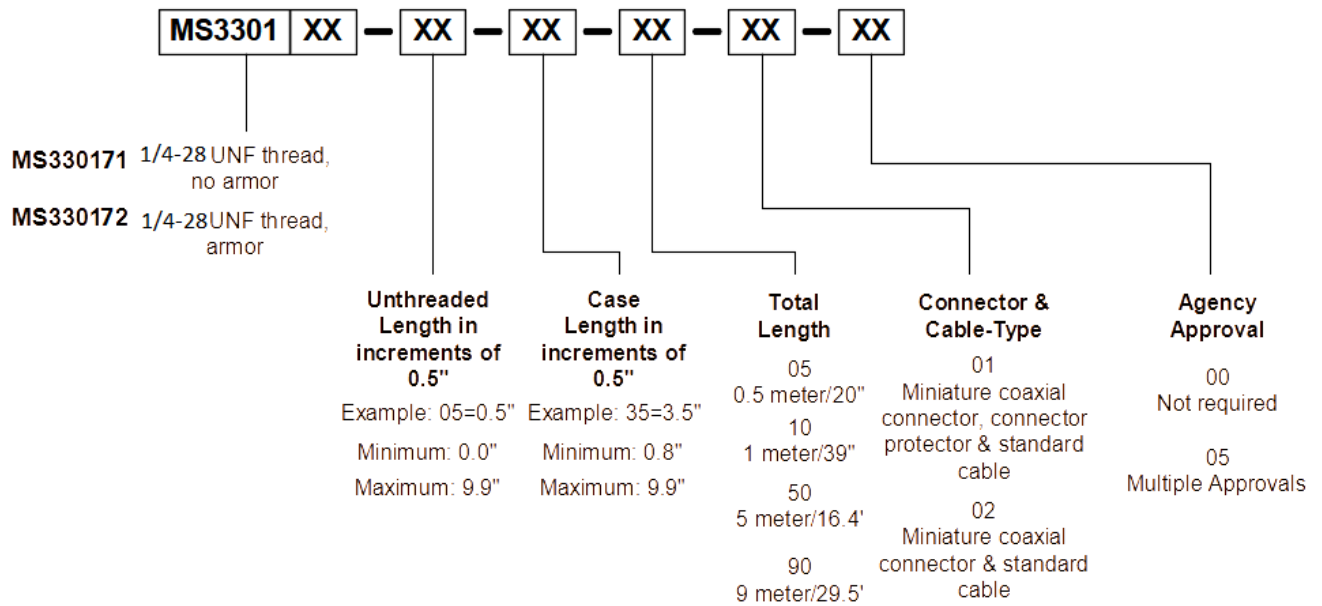
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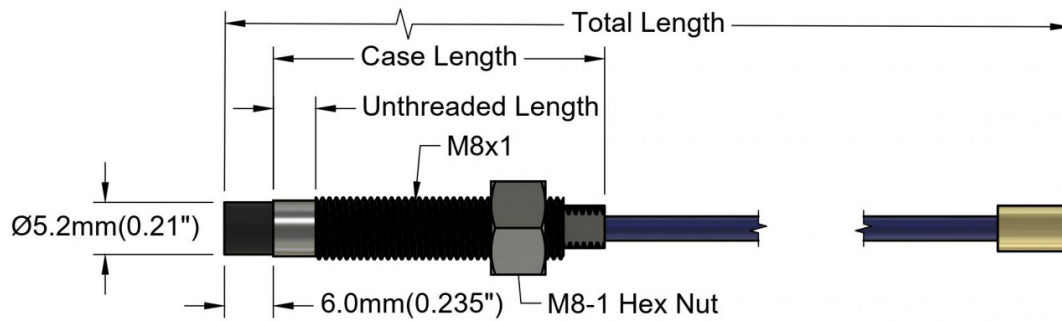
MS330171-MS330172

REV

1.01



Metric



PROJECT
3300_5MM

TITLE
MS330173/MS330174

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/10/2022

SIZE

A

SCALE

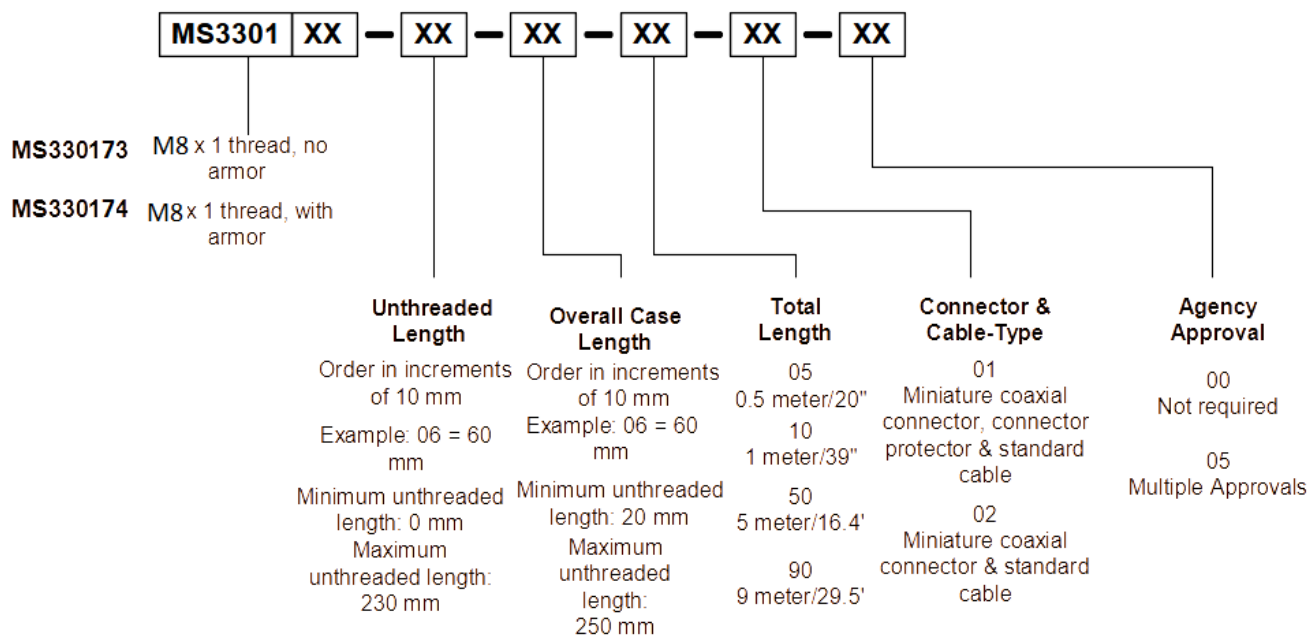
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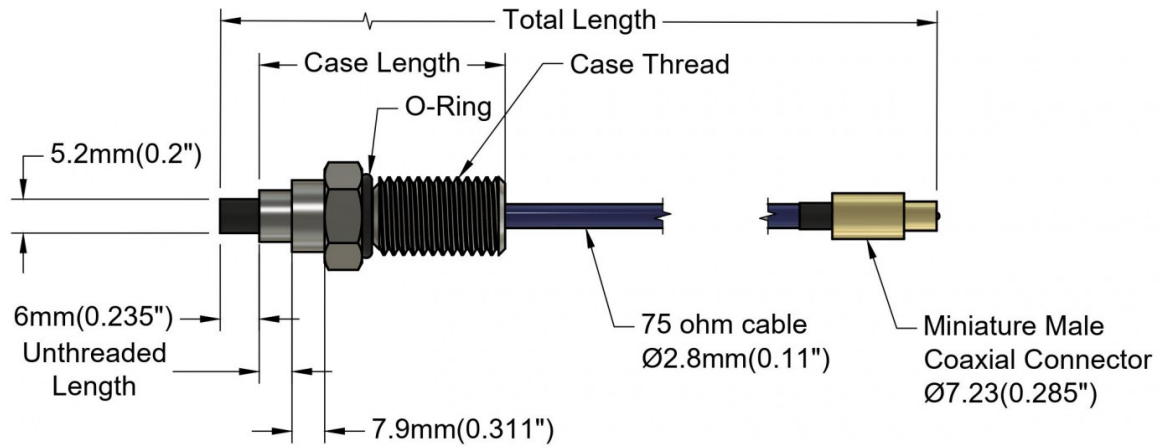
MS330173-MS330174

REV

1.01



Reverse Mount - Metric or Imperial



PROJECT
3300_5mm_Series_Proximity

TITLE
MS330175-330176

APPROVED Leo Bach 8/1/2022

CHECKED Bryson Carroll 8/1/2022

DRAWN Luke Benjamin 8/1/2022

SIZE

SCALE

DWG NO

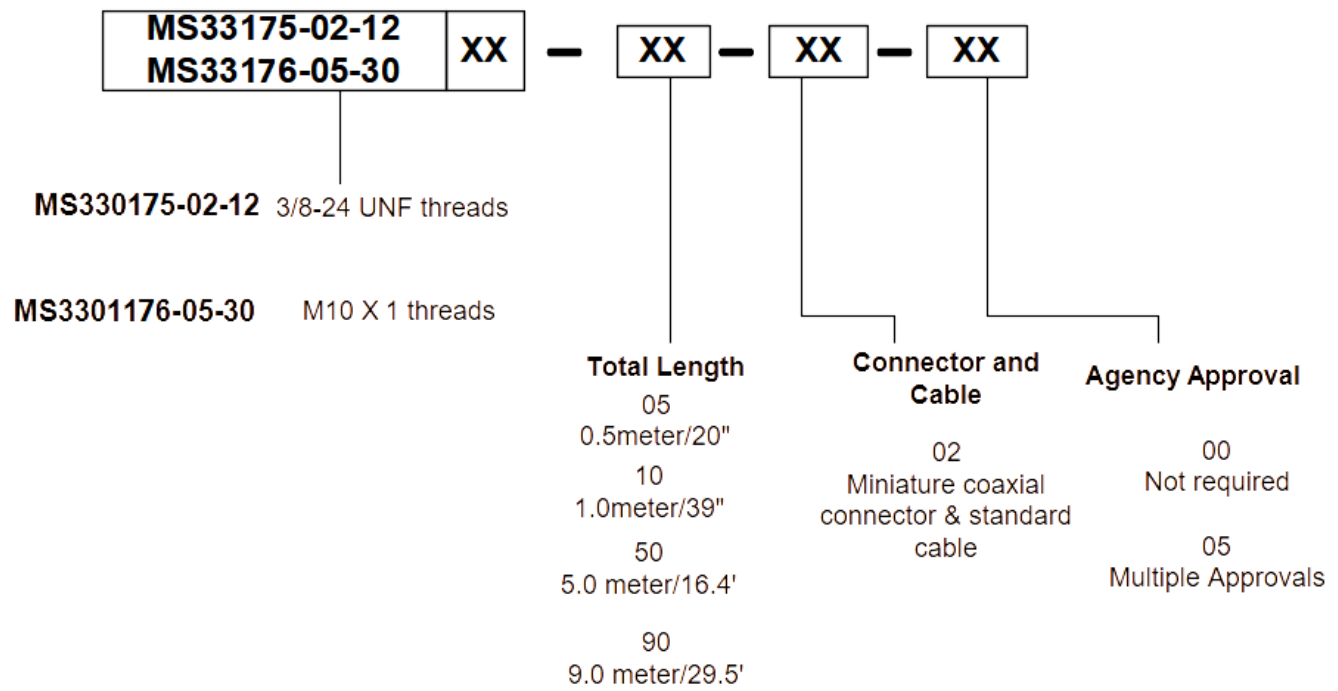
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1:2

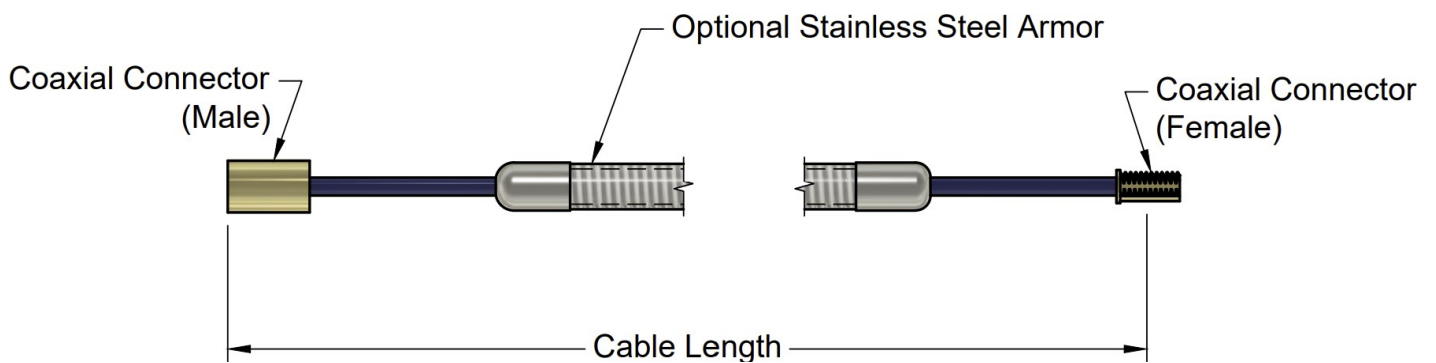
MS330175-MS330176

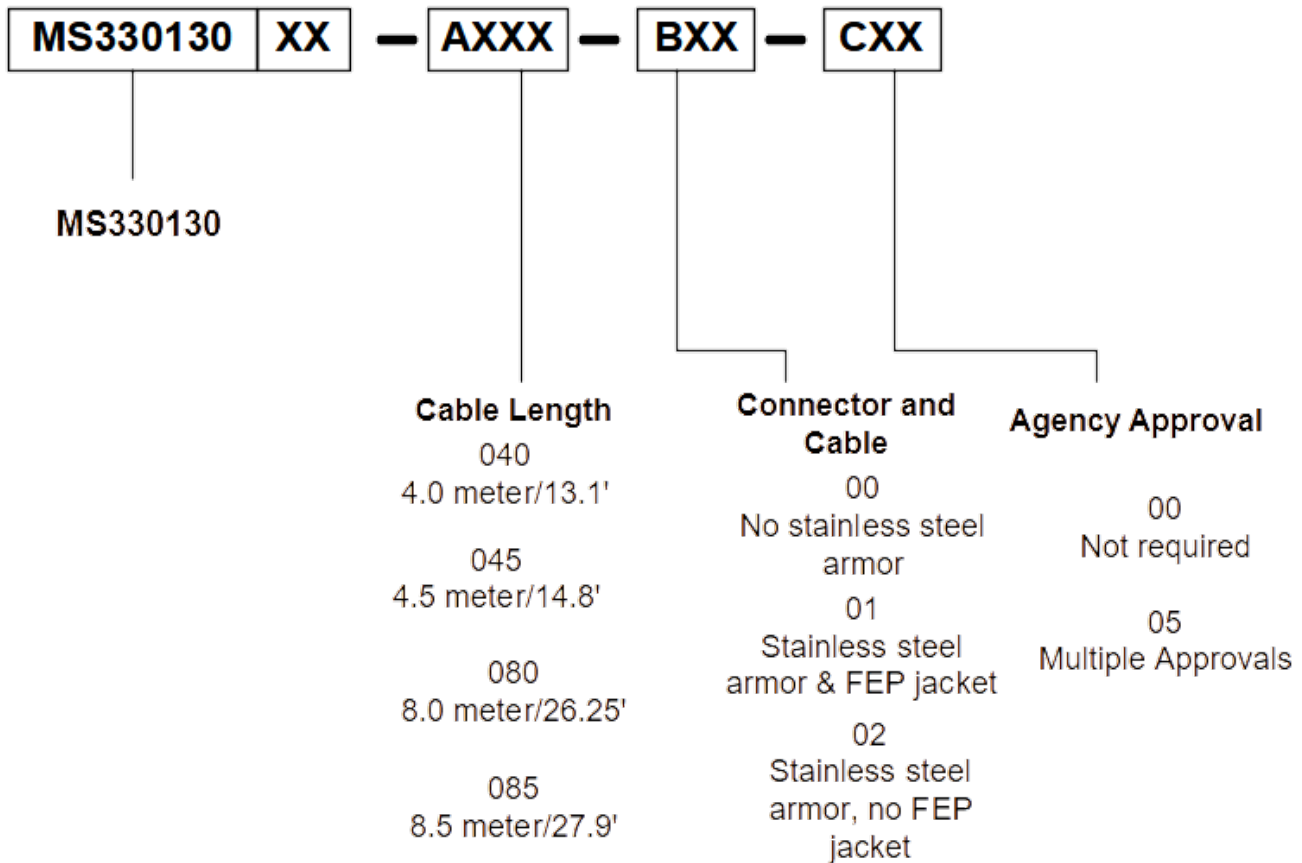
REV

1.01



Extension Cables





Electrical

Linear Range:

2.0 mm (80 mils). Linear range begins at 0.38 mm (15 mils) from target and is from 0.38 to 2.41mm (15 to 95 mils).

Incremental Scale Factor (ISF):

7.87 V/mm (200 mV/mil) +/-6.5% error (including interchangeability error) when measured in 10 mil increments when measured in increments of 0.25 mm (10 mils) over the 2.0 mm (80 mils) linear range.

Deviation from best fit straight line (DSL):

1 to 5 meter system length is less than ± 0.025 mm (± 1 mil).

9 meter system length is less than ± 0.038 mm (± 1.5 mil).

Frequency response:

0 to 10kHz (-3 dB) typical, with up to 100 meters (300 feet) of field wiring.

Target Size:

Minimum flat: 25 mm (1.0 in) diameter.

Minimum perpendicular to shaft 50mm (2 in.).

Recommended perpendicular to shaft 75mm (3 in.).

Mechanical

Probe Tip Material:

Polyphenylene sulfide (PPS).

Probe Case Material:

AISI 303 or 304 stainless steel (SST).

Probe Cable Specifications:

75 Ω coaxial, fluoroethylene propylene (FEP) insulated probe cable in the following total probe lengths: 0.5, 1, 5, or 9 meters.

Extension Cable Material:

75 Ω coaxial, fluoroethylene propylene (FEP) insulated.

System Length:

1 (probe only), 5 or 9 meters including extension cable

Extension Cable Armor (optional):

Flexible AISI 302 SST with/without FEP outer jacket.

Tensile Strength (maximum rated):

220 N (50 lb) probe case to probe lead. 220 N (50 lb) at probe lead to extension cable connectors.

220 N (50 lb) probe case to stainless steel armor.

Connector material:

Gold-plated brass

Recommended Connector Torque:

Hand tightened

Maximum torque:

0.56 N•m (5 in•lb)

Minimum bend Radius (with or without SS armor):

25.4 mm (1.0 in)

Environmental Limits

Probe Temperature Range

Operating Temperature:

-34°C to +177°C (-30°F to +350°F)

Storage Temperature:

-51°C to +177°C (-60°F to +350°F)

Extension Cable Temperature Range

Operating and Storage Temperature:

-51°C to +177°C (-60°F to +350°F)

Storage Temperature:

-51°C to +177°C (-60°F to +350°F)

Proximity Sensor Temperature Range

Operating Temperature:

-35°C to +177°C (-31°F to +350°F)

Storage Temperature:

-51°C to +177°C (-60°F to +350°F)

Relative Humidity:

100% condensing, non-submersible when connectors are protected

Revision #6

Created 1 November 2022 00:48:23 by Bach_L

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