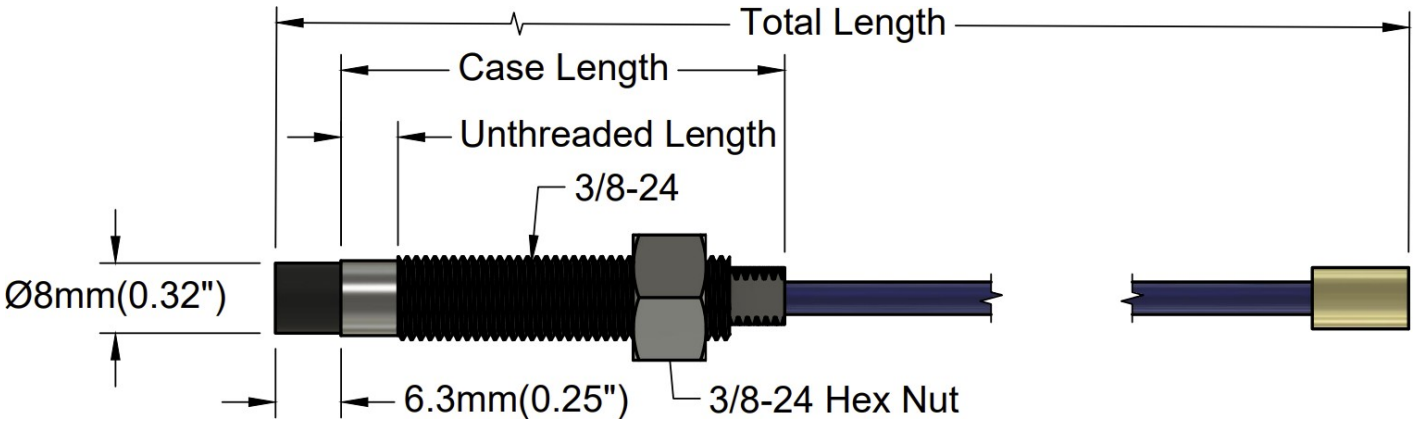
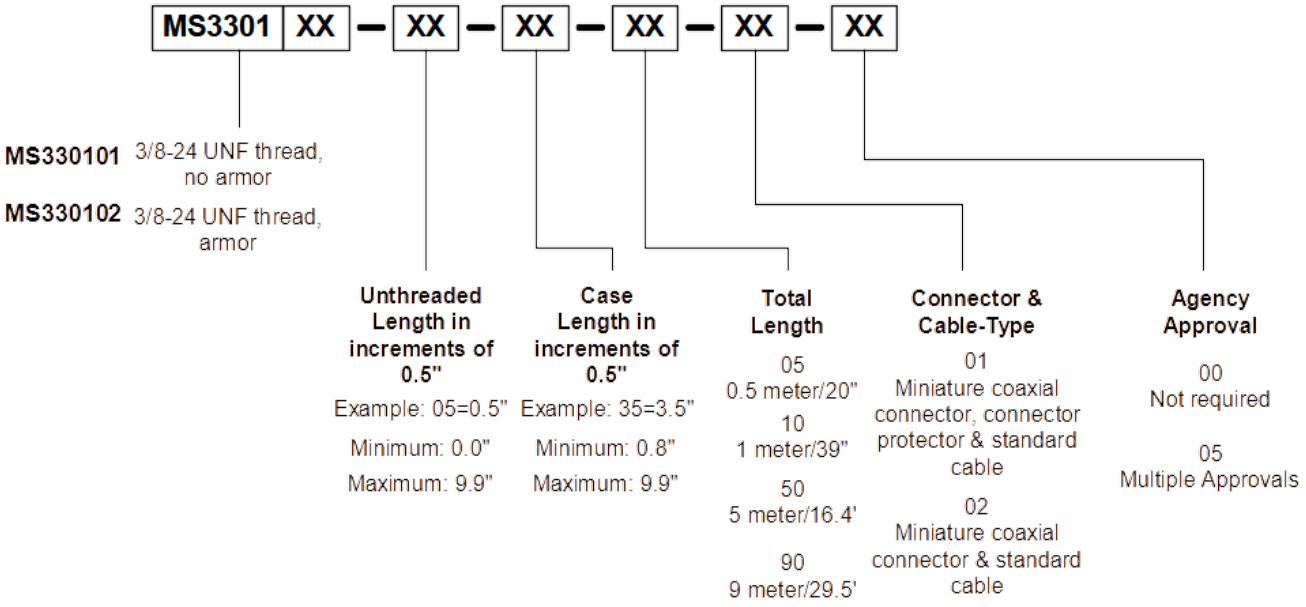
3300 8mm Specifications and Dimensions

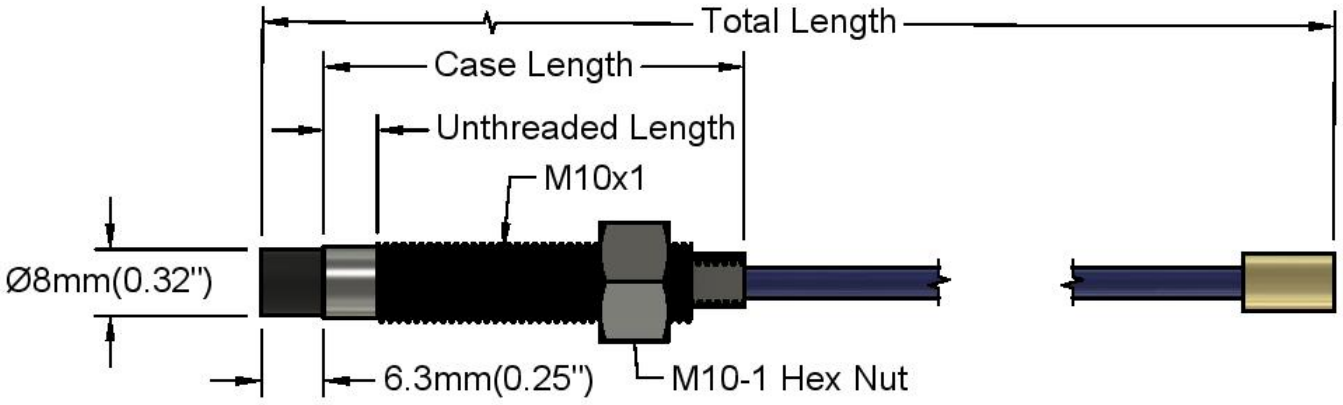
Extension Cable Armor (optional)	Flexible AISI 302 SST with/without FEP outer jacket
Tensile Strength (maximum rated)	220 N (50 lb) probe case to probe lead. 220 N (50 lb) at probe lead to extension cable connectors. 220 N (50 lb) probe case to stainless steel armor
Connector material	Gold-plated brass
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

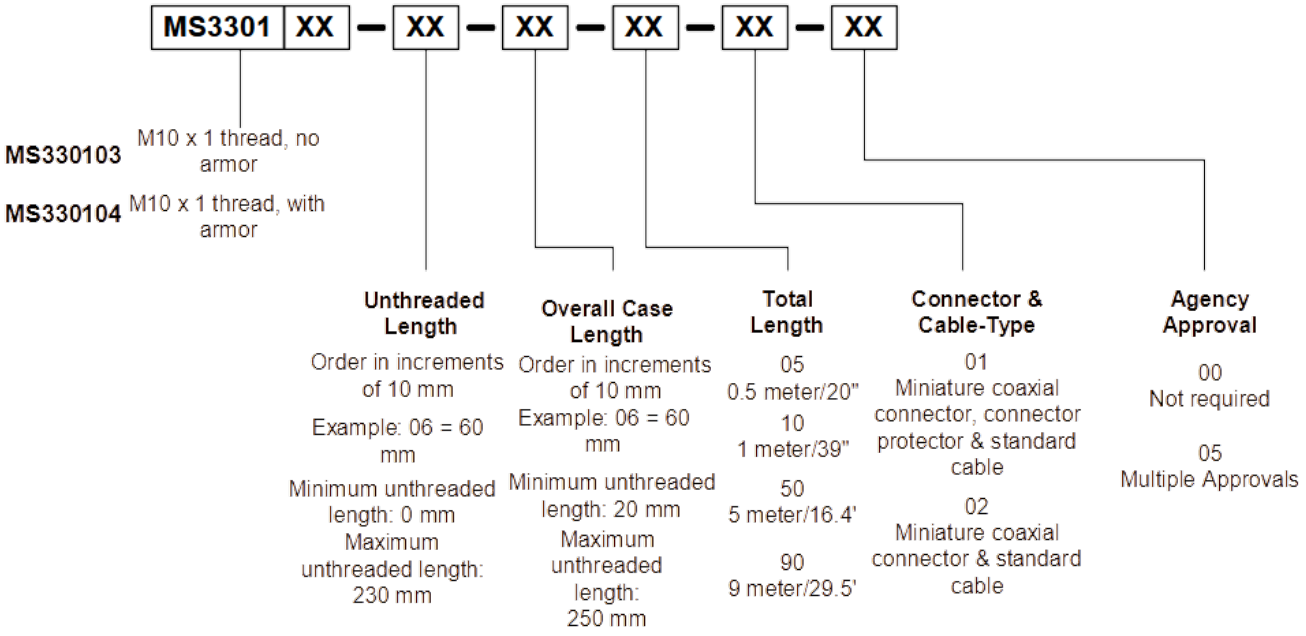
Imperial/US



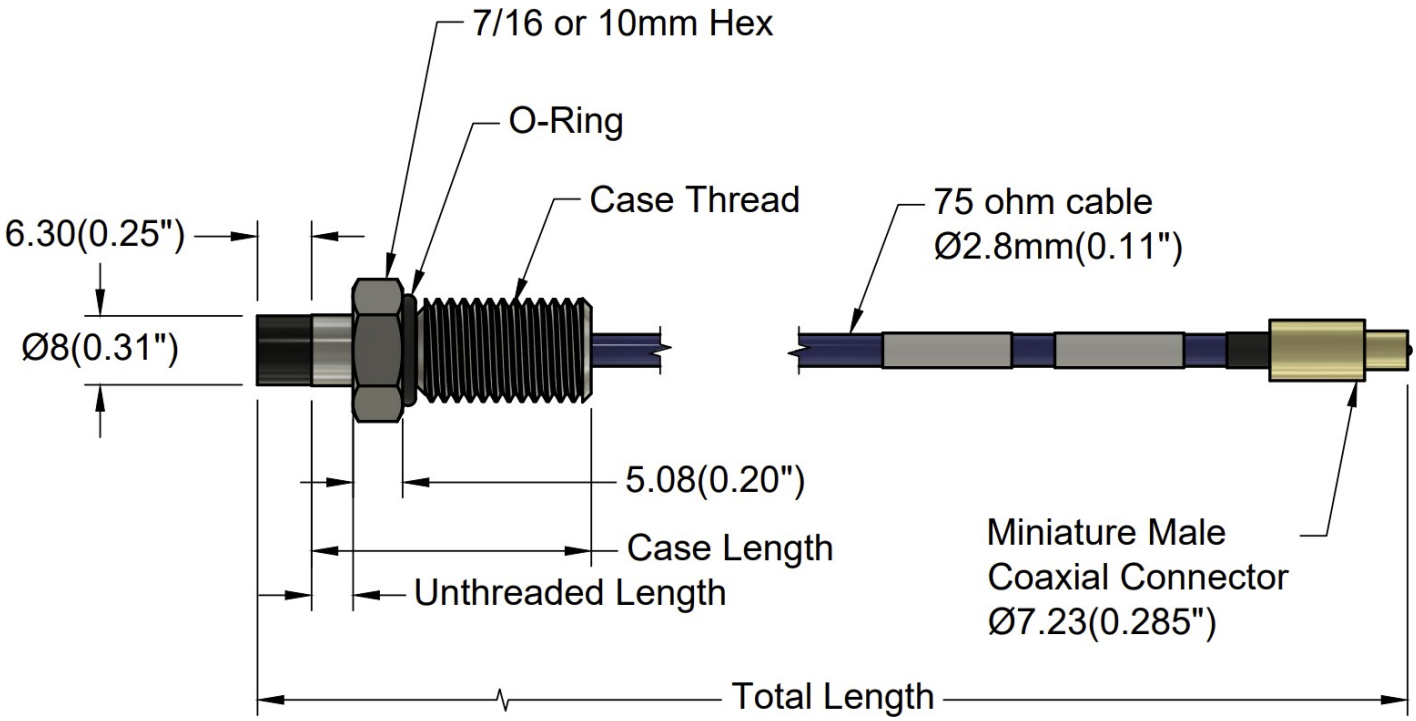

MS3301 XX – XX – XX – XX – XX – XX
MS330101 3/8-24 UNF thread, no armor
MS330102 3/8-24 UNF thread, armor
Unthreaded Length in increments of 0.5"
Example: 05=0.5"
Minimum: 0.0"
Maximum: 9.9"
Case Length in increments of 0.5"
Example: 35=3.5"
Minimum: 0.8"
Maximum: 9.9"
Total Length
05
0.5 meter/20"
10
1 meter/39"
50
5 meter/16.4'
90
9 meter/29.5'
Connector & Cable-Type
01
Miniature coaxial connector, connector protector & standard cable
02
Miniature coaxial connector & standard cable
Agency Approval
00
Not required
05
Multiple Approvals

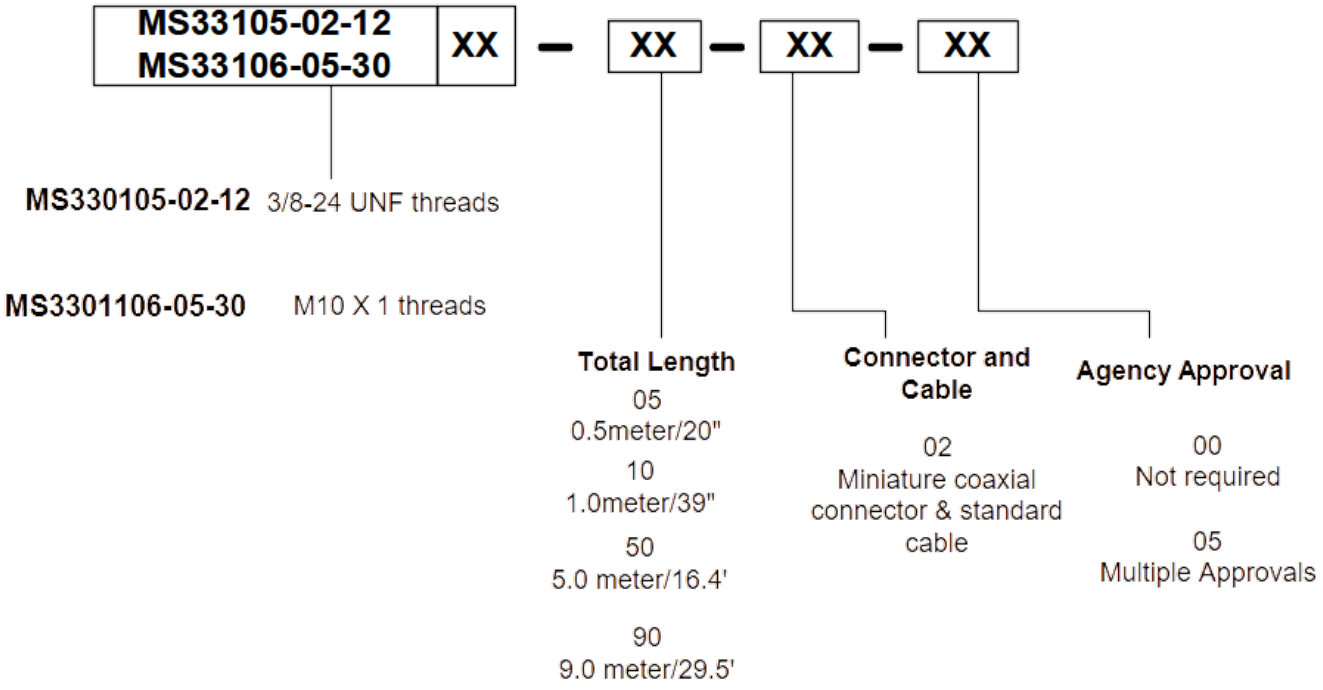
Metric


Total Length
Case Length
Unthreaded Length
M10x1
Ø8mm(0.32")
6.3mm(0.25")
M10-1 Hex Nut

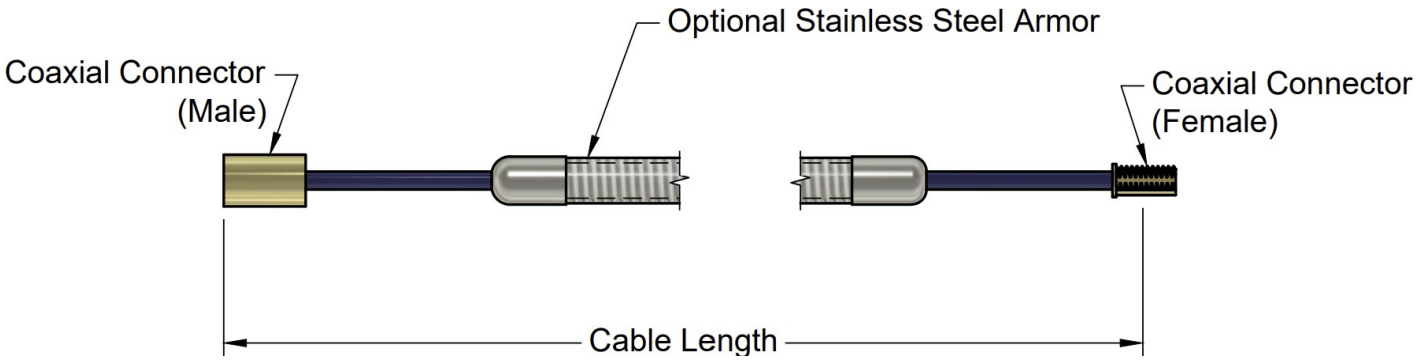


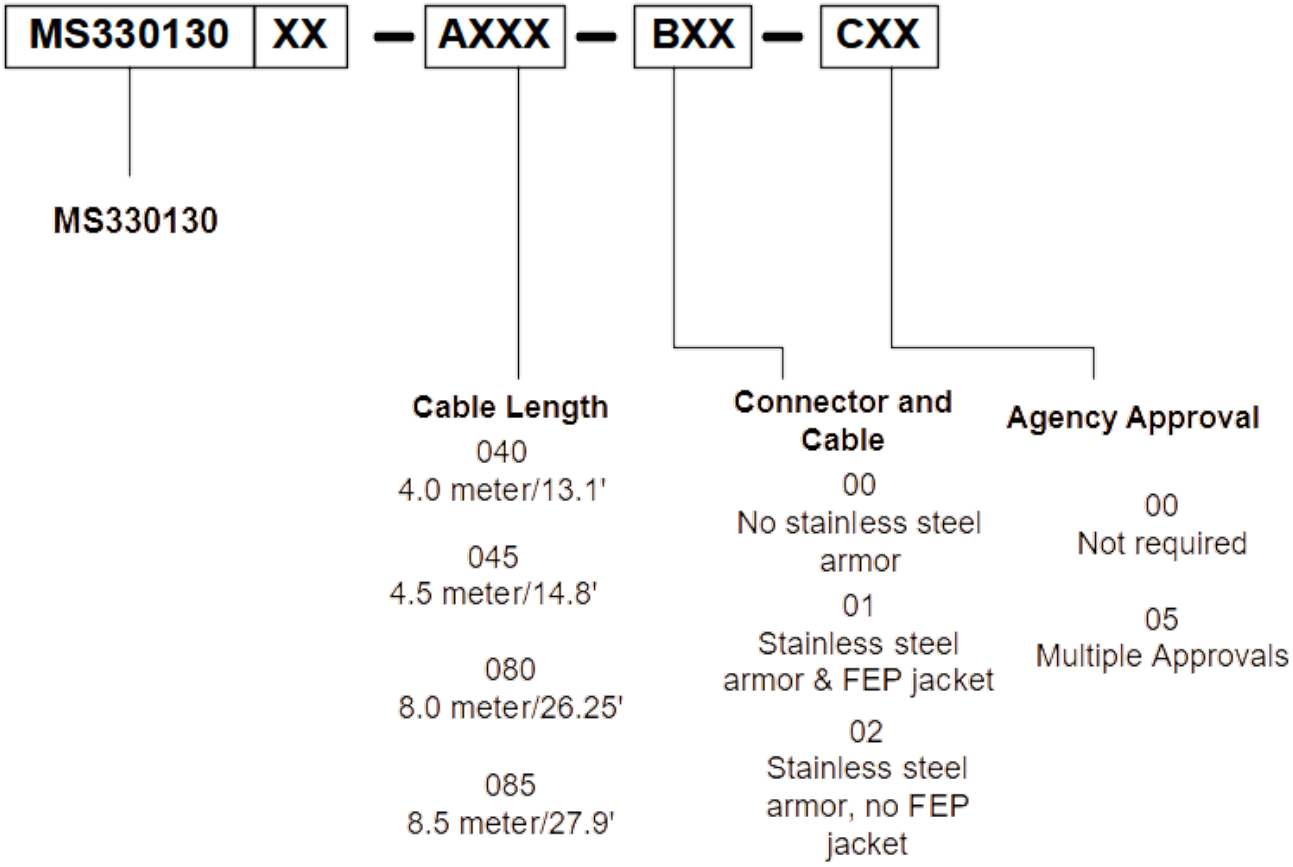
Reverse Mount - Metric or Imperial





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 2.41 mm (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

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Revision #8
Created 23 June 2022 05:46:58 by Bach_L
Updated 9 May 2023 17:31:03 by Bach_L