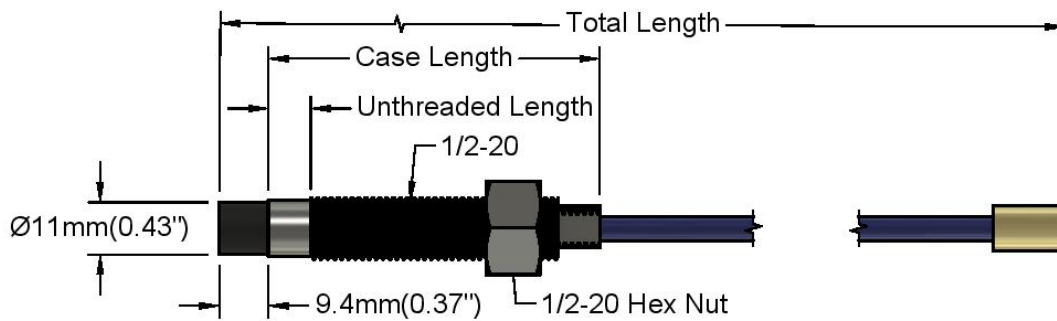


3300 11mm Specifications and Dimensions

Imperial



PROJECT
3300_11MM_Series_Proximity

TITLE
MS330701/MS330702

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/10/2022

SIZE

A

SCALE

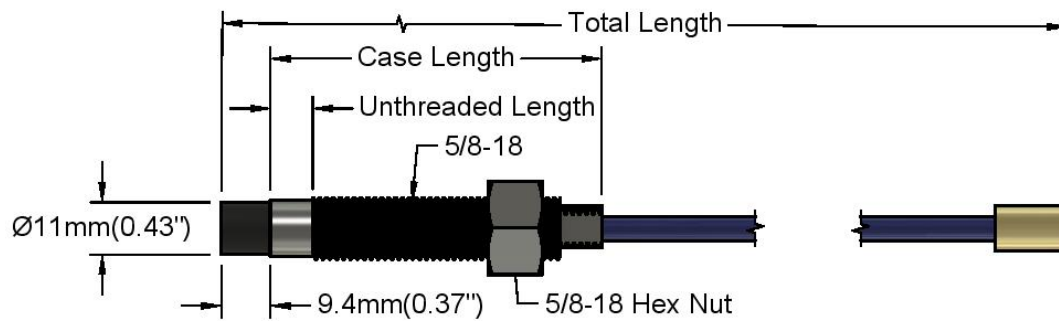
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DWG NO

MS330701-MS330702

REV

1.01



PROJECT
3300_11MM_Series_Proximity

TITLE
MS330707/MS330708

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/10/2022

SIZE

A

SCALE

1:1

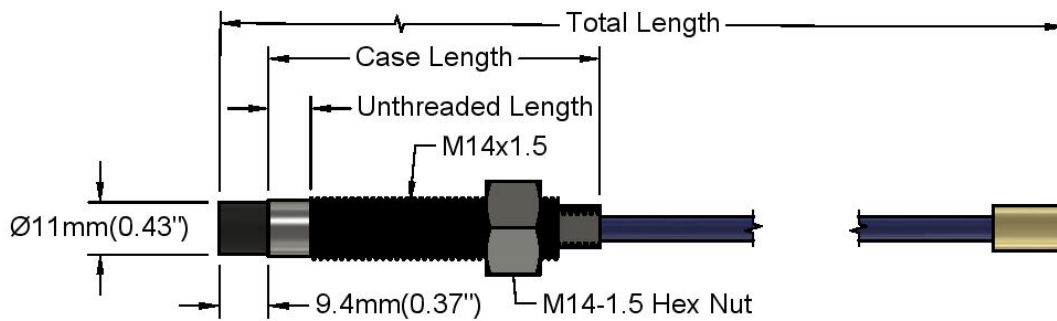
DWG NO

MS330707-MS330708

REV

1.01

Metric



PROJECT
3300_11MM_Series_Proximity

TITLE
MS330703/MS330704

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/10/2022

SIZE

A

SCALE

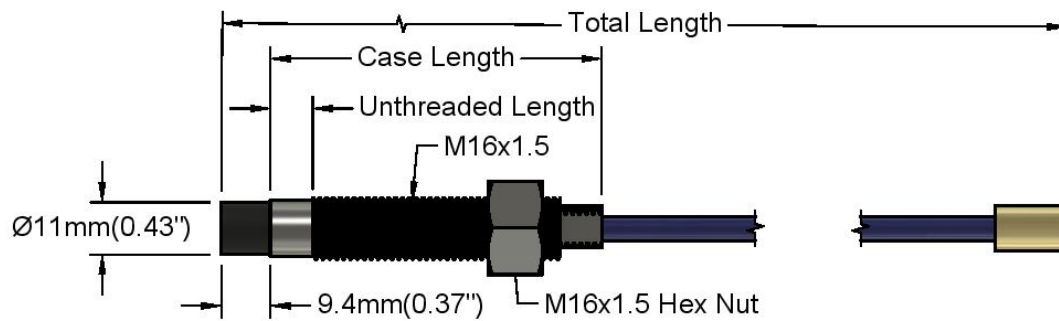
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DWG NO

MS330703-MS330704

REV

1.01



PROJECT
3300_11MM_Series_Proximity

TITLE
MS330709/MS330710

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/10/2022

SIZE

A

SCALE

1:1

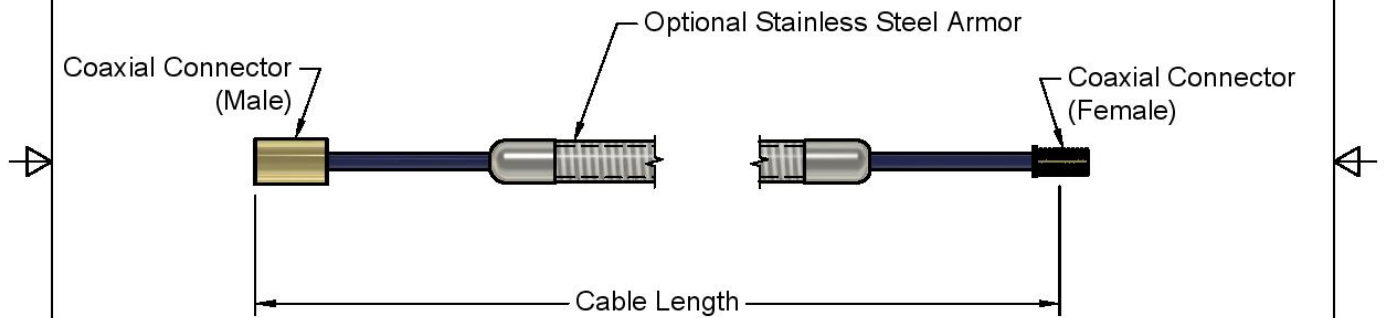
DWG NO

MS330709-MS330710

REV

1.01

Extension Cables



PROJECT
3300_11MM_Series_Proximity

TITLE
MS330730

APPROVED Leo Bach 5/10/2022

CHECKED Bryson Carroll 5/10/2022

DRAWN Luke Benjamin 5/12/2022

SIZE
A

SCALE
1:1

DWG NO
MS330730

REV
1.01

Electrical

Linear Range:

4.0 mm (160 mils). Linear range begins at 0.50 mm (20 mils) from target and is from 0.50 to 4.50 mm (20 to 180 mils)

Incremental Scale Factor (ISF):

3.94 V/mm (100 mV/mil) +/-10% error (including interchangeability error) when measured in 10 mil increments when measured in increments of 0.50 mm (20 mils) over the 4.0 mm (160 mils) linear range

Deviation from best fit straight line (DSL):

1 to 5 meter system length is less than ± 0.10 mm (± 4 mil).

9 meter system length is less than ± 0.15 mm (± 6 mil).

Frequency response:

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

Target Size:

Minimum flat: 30.5 mm (1.2 in) diameter

Minimum perpendicular to shaft 150mm (6 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 #9

Created 6 May 2022 21:06:39 by Bach_L

Updated 9 May 2023 17:34:44 by Bach_L