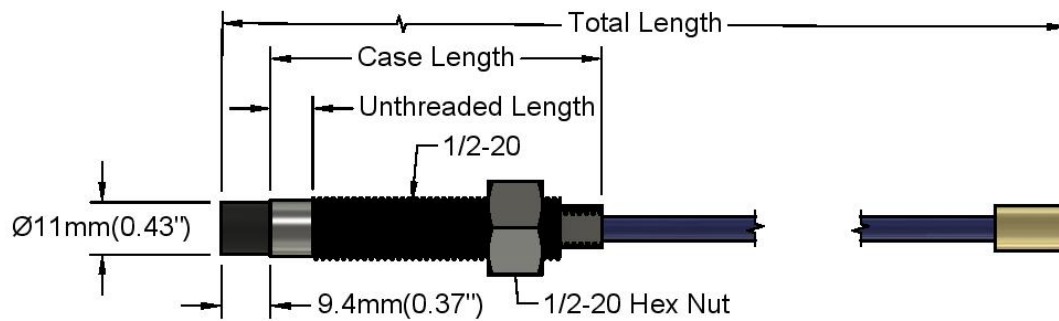


# 3300 11mm Specifications and Dimensions

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

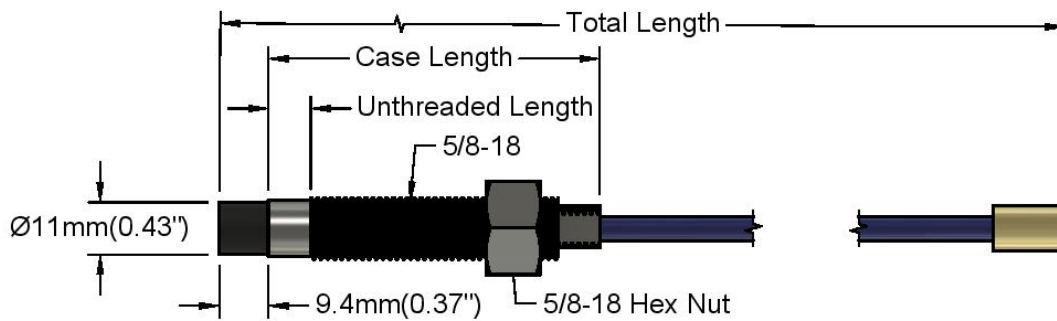
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DWG NO

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

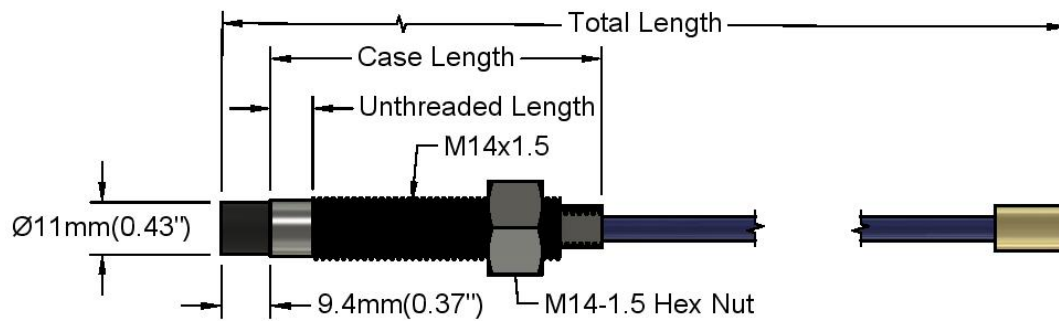
DWG NO

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

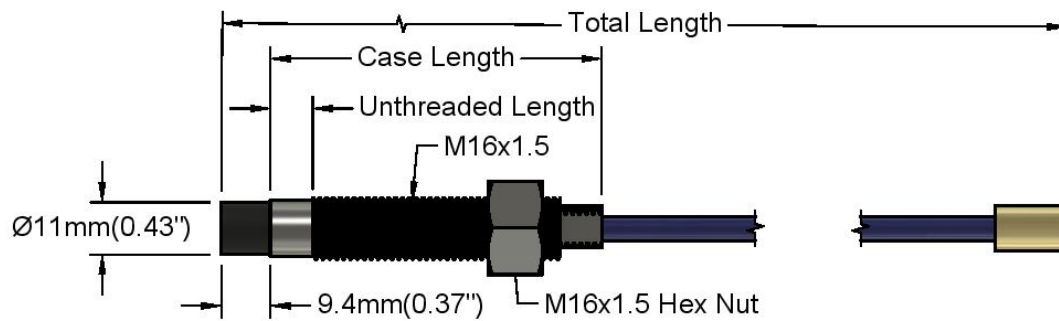
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DWG NO

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

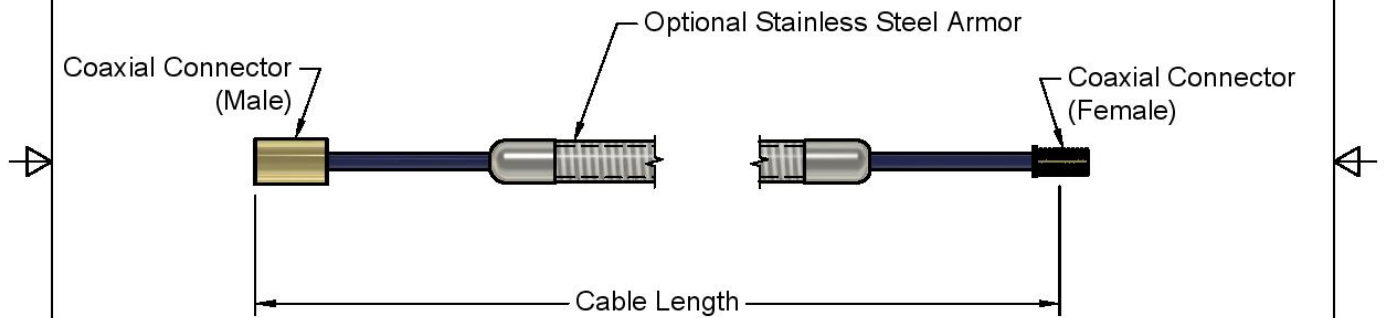
DWG NO

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  $\pm 0.10$  mm ( $\pm 4$  mil).

9 meter system length is less than  $\pm 0.15$  mm ( $\pm 6$  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  $\Omega$  coaxial, fluoroethylene propylene (FEP) insulated probe cable in the following total probe lengths: 0.5, 1, 5, or 9 meters.

**Extension Cable Material:**

75  $\Omega$  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 #9

Created 6 May 2022 21:06:39 by Bach\_L

Updated 9 May 2023 17:34:44 by Bach\_L