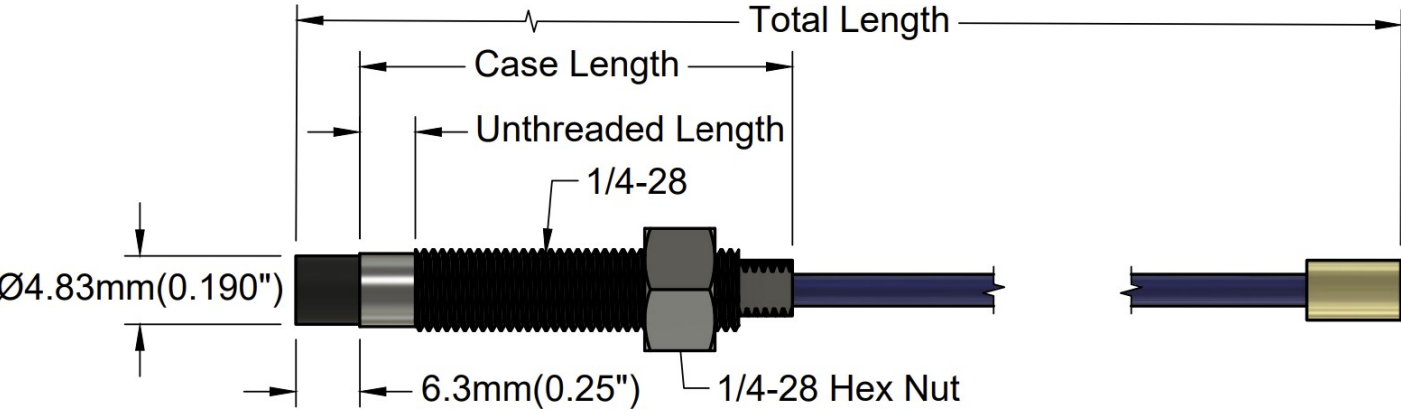
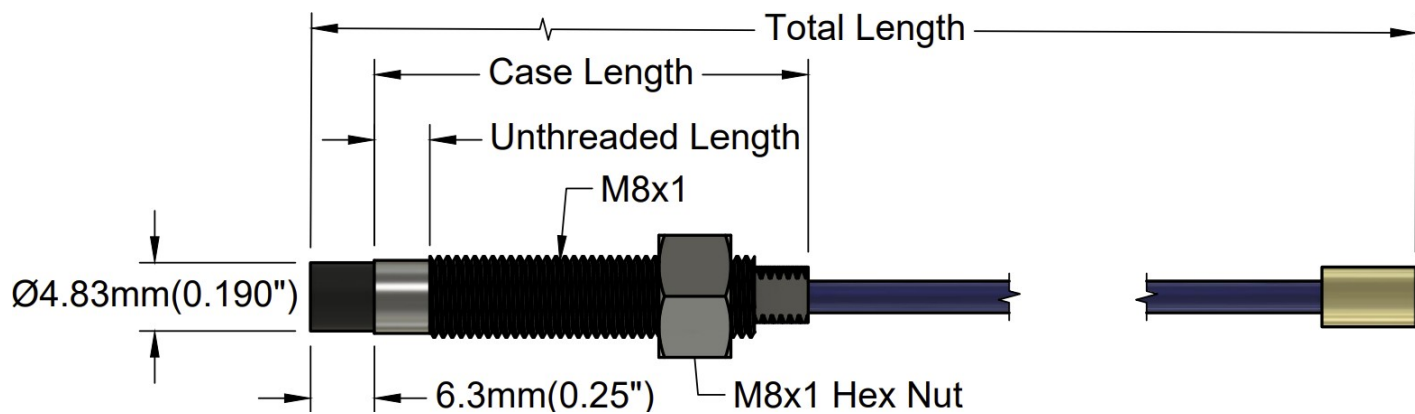


# 3000 Specifications and Dimensions

Probe Cable Specifications	50 ? coaxial, fluoroethylene propylene (FEP) insulated probe cable
Probe Case Material	AISI 303 or 304 stainless steel (SST).
Extension Cable Material	95 ? coaxial, fluoroethylene propylene (FEP) insulated extension cable
System Length	15 ft or 20 ft.
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)





**MS190 XX - AXX - BXX - CXX - DXX**

**MS19000** 1/4-28 UNF thread, no armor

**MS19001** 1/4-28 UNF thread, with armor

**MS19008** M8x1, with armor

#### Unthreaded Length

English  
Standard: 00 (0.0")

Increment: 05 (0.5")

Maximum: 10 (1.0")

Metric  
Standard: 00 (0 mm)

Increment: 01 (10 mm)

Maximum: 02 (20 mm)

#### Case Length in increments of 0.5"

English  
Standard: 30 (3.0")

Increment: 05 (0.5")

Minimum: 11 (1.1")

Maximum: 96 (9.6")

Metric  
Standard: 07 (70 mm)

Increment: 01 (10 mm)

Minimum: 02 (20 mm)

Maximum: 25 (250 mm)

#### Total Length

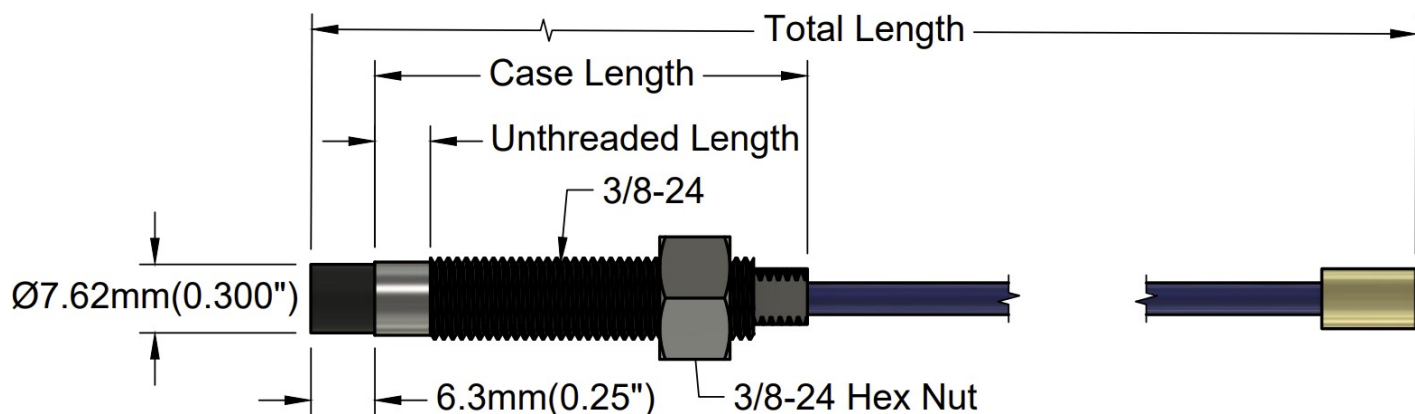
Minimum: 06  
6"

Maximum: 36  
36"

Order in  
increments of  
6"

#### Connector & Cable-Type

02  
with connector



20 ft. system length is less than  $\pm 0.076$  mm ( $\pm 3$  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:**

50  $\Omega$  coaxial, fluoroethylene propylene (FEP) insulated probe cable.

**Extension Cable Material:**

95  $\Omega$  coaxial, fluoroethylene propylene (FEP) insulated extension cable.

**System Length:**

15 ft or 20 ft.

**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 +125°C (-30°F to +257°F)

**Storage Temperature:**

-51°C to +125°C (-60°F to +257°F)

**Extension Cable Temperature Range****Operating and Storage Temperature:**

-51°C to +125°C (-60°F to +257°F).

**Storage Temperature:**

-51°C to +125°C (-60°F to +257°F).

## **Proximity Sensor Temperature Range**

### **Operating Temperature:**

-35°C to +125°C (-31°F to +257°F).

### **Storage Temperature:**

-51°C to +125°C (-60°F to +257°F).

### **Relative Humidity:**

100% condensing, non-submersible when connectors are protected.

---

Revision #4

Created 6 July 2022 18:33:18 by Bach\_L

Updated 9 May 2023 17:36:31 by Bach\_L