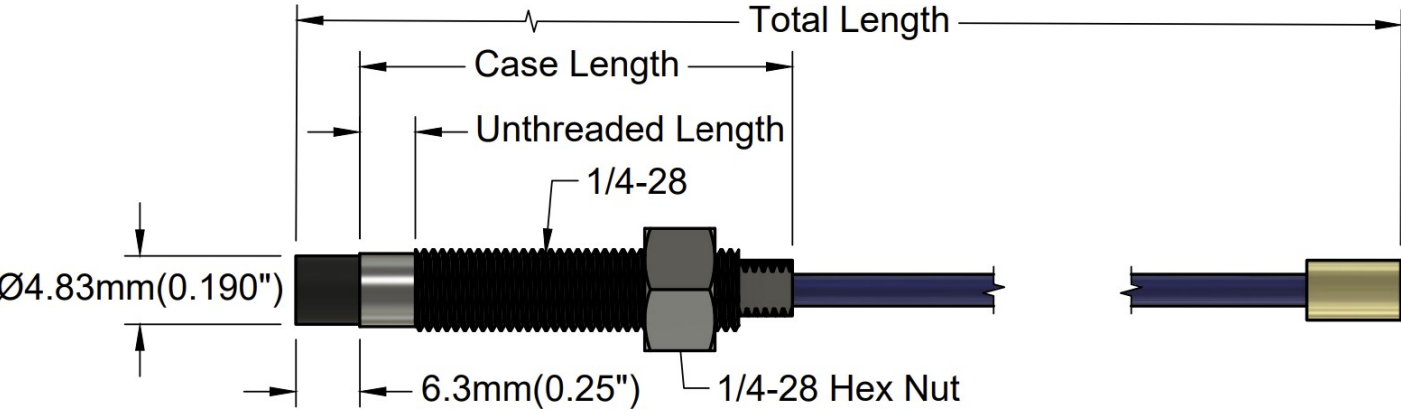
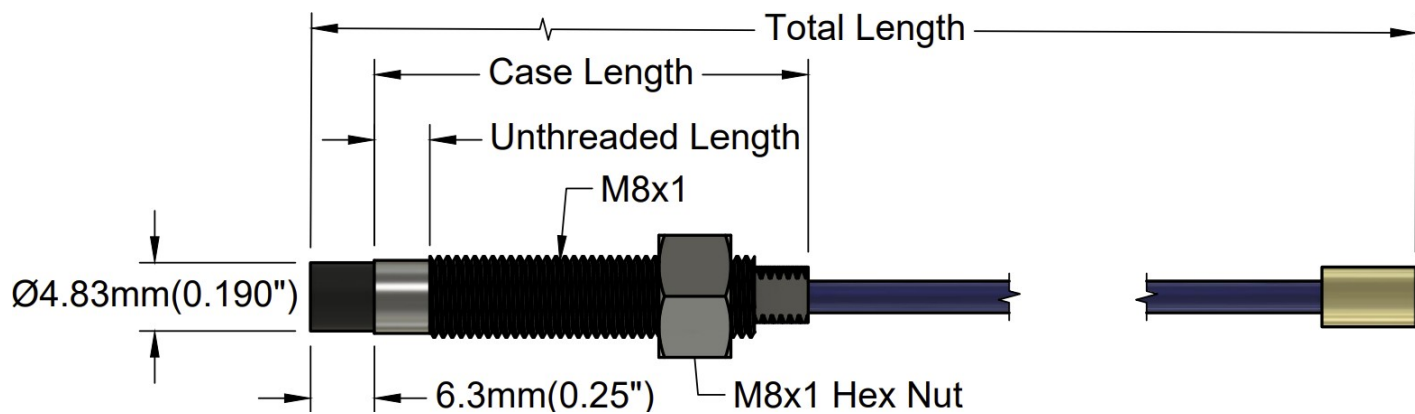


3000 Specifications and Dimensions

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

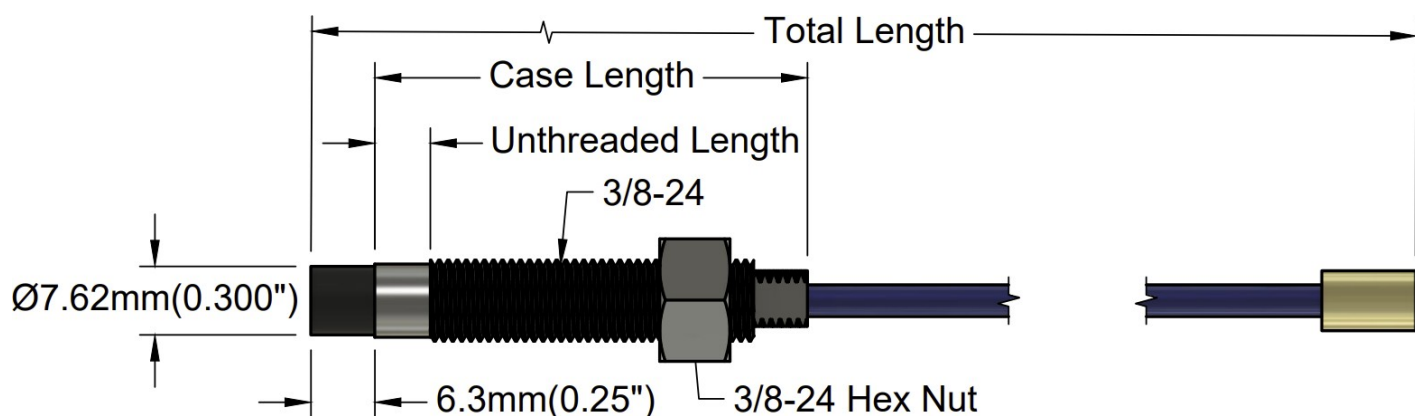
Minimum: 06
6"

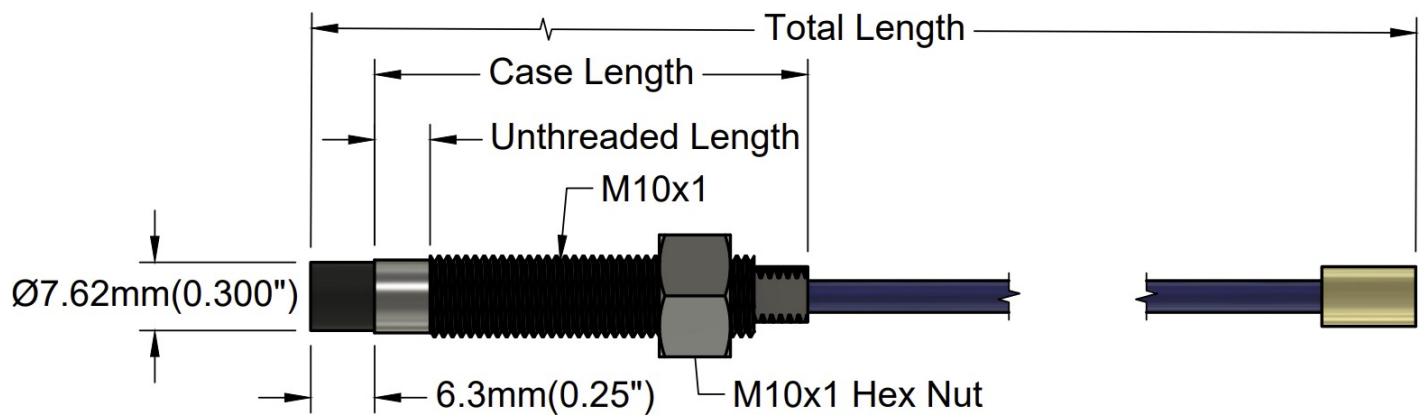
Maximum: 36
36"

Order in
increments of
6"

Connector & Cable-Type

02
with connector





MS30000		XX	—	AXX	—	BXX	—	CXX	—	DXX	
MS30000	3/8-28 UNF thread, no armor										
MS30001	3/8-24 UNF thread, with armor										
MS30011	M10x1, no armor										
MS30012	M10x1, with armor										
			Unthreaded Length		Overall Case Length		Total Length		Connector & Cable-Type		
			English		English						
			Standard: 00 (0.0")		Standard: 30 (3.0")		Minimum: 06 6"		02 with connector		
			Increment: 05 (0.5")		Increment: 05 (0.5")		Maximum: 36 36"				
			Maximum: 10 (1.0")		Minimum: 11 (1.1")						
					Maximum: 96 (9.6")						
			Metric		Metric		Order in increments of 6"				
			Standard: 00 (0 mm)		Standard: 07 (70 mm)						
			Increment: 01 (10 mm)		Increment: 01 (10 mm)						
			Maximum: 02 (20 mm)		Minimum: 02 (20 mm)						
					Maximum: 25 (250 mm)						
			Maximum: 9.9"								

Electrical

Linear Range:

0.190" 1.43 mm (45 mils) Linear range begins at 0.25 mm (10 mils) to 1.40 mm (55 mils)

0.300" 1.53 mm (60 mils) Linear range begins at 0.25 mm (10 mils) to 1.78 mm (70 mils)

Incremental Scale Factor (ISF):

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

Deviation from best fit straight line (DSL):

15 ft. system length is less than ± 0.05 mm (± 2 mil).

20 ft. system length is less than ± 0.076 mm (± 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 Ω coaxial, fluoroethylene propylene (FEP) insulated probe cable.

Extension Cable Material:

95 Ω 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