

# 10000 PROXIMITY PROBES & CABLES FOR 7200 SERIES (5 & 8 MM)

## Datasheet

### OVERVIEW

The 7200 series rack monitors are obsolete. But 7200 series proximity probes (transducers) are still on many machines in a variety of industries. Proximity probes, cables and drivers or transmitters are combined within a unique series and not mixed with other series (i. e., 3300, 3300 XL or the 3000 series). The lengths of the proximity probes and extension cables must combine for a system length of 5 or 9 meters.

All proximity probes/transducers have third party approvals, comply with API 670 specifications, and feature ProxMatch™ component coding and are ATEX approved. These proximity probes (transducers) are interchangeable with the 7200 series.

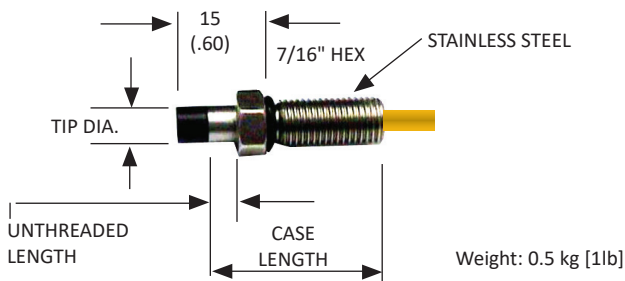


### PROXIMITY PROBES & EXTENSION CABLES SELECTION

1. Select a probe to suit the mechanical requirements of the machine and mates with the same series extension cable and driver, or transmitter.
2. Pick an Extension Cable from SAME SERIES as probe and electronics.
3. Given the probe length, pick a cable length so the sum of probe and cable add up to the system length.
4. Choose with or without armor.

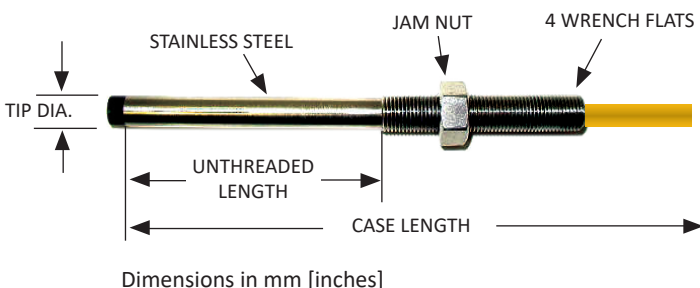
### WEIGHT AND DIMENSIONS

#### REVERSE MOUNT PROBE



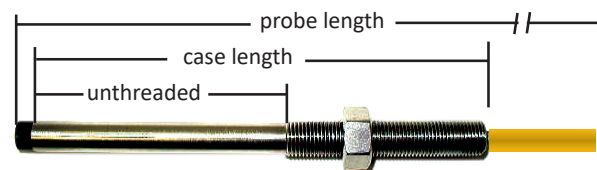
#### STANDARD PROBE

Weight:  
0.4 kg [0.8 lb], unarmored      0.5 kg [1 lb], armored

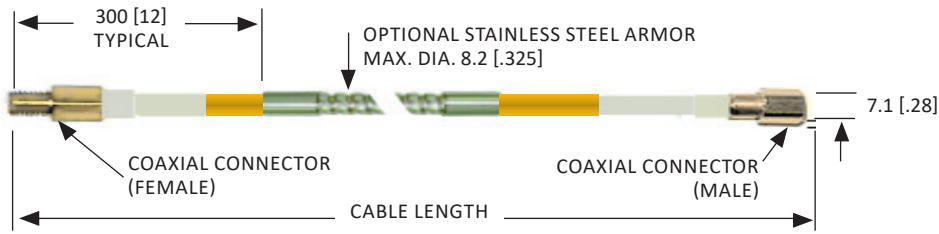


### SPECIFICATIONS

<b>Probe Tip Material</b>	Ryton
<b>Probe Case Material</b>	Series 300 SS for forward mount, smooth case and reverse mount probes
<b>Probe Cable Specs</b>	Coaxial cable with Tefzel insulation for maximum abrasion resistance with ProxMatch color & alphanumeric coding specific to a series and system length.
<b>Cable Impedance</b>	95 Ω
<b>Connector to Connector Torque</b>	Hex connector to hex connector- finger tight and 1/8 turn with wrenches. Hex connector to “click type” connector- finger tight plus 1/8 turn with wrench & pliers
<b>Tensile Strength</b>	75 lbf. probe case to probe lead. 60 lbf. probe pigtail to connector and 60 lbf. connectors to extension cable.
<b>Probe / Cable Armor</b>	Series 300 SS, flexible, connected to probe body with case internal thread.
<b>Minimum Bend Radius</b>	1 inch without armor
<b>Target Material</b>	4140 steel (standard)
<b>Probe &amp; Extension Cable Temperature Range</b>	-40°C to +177°C (-40°F to +351°F)
<b>Probe Pressure</b>	Standard probe design includes seal between probe tip and case and is not pressure tested before shipment. If pressures are present, contact the factory for possible high pressure probe designs.
<b>Relative Humidity</b>	100% condensing but not submersible and with connectors properly protected.
<b>Connector Material</b>	Gold plated brass hex connectors



**CABLE**

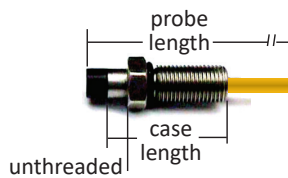


Weights:  
 0.5 kg [1 lb] for 5 m, unarmored  
 0.7 kg [1.5 lbs] for 5 m, armored  
 0.7 kg [1.5 lbs] for 9 m, unarmored  
 1.0 kg [2.2 lbs] for 9 m, armored

**ORDERING INFORMATION**

STANDARD PROXIMITY PROBE 100XX-AA-BB-CC-02						
Model No.	Tip Diameter	Case Threads	Unthreaded Length AA	Case Length BB	Probe Length CC	Armor
10001	5 mm	1/4"-28	Increments of 0.5 in. Maximum= case length minus 1 in.	10=1 in. (min)	05 = 0.5 m ± 0.05 m	No
10002				05= 0.5 in. (delta)		Yes
10005	8 mm	3/8"-24	Increments of 0.5 in. Maximum= case length minus 1 in.	30= 3 in. (standard)	05 = 0.5 m ± 0.05 m	No
10006				95= 9.5 in. (max)		Yes
10003	5 mm	M8X1	Increments of 10 mm. Maximum= case length minus 20 mm.	Even increments only	10 = 1.0 m ± 0.1 m	No
10004				02= 20mm. (min)		Yes
10007	8 mm	M10X1	Increments of 10 mm. Maximum= case length minus 20 mm.	07= 70mm. (standard)	10 = 1.0 m ± 0.1 m	No
10008				25= 250mm. (max)		Yes
10026*	8 mm	3/8"-24	02= 0.2 in.	12= 1.2 in.		
10030*		M10X1	05= 5 mm.	30= 30 mm.		

\* Reverse Mount



Use a standard straight-through threaded probe or the reverse mounted probe and "stinger" depending on availability of the target.

**Model 5499 IS REQUIRED**  
for mounting reverse mount probes



EXTENSION CABLE FOR 7200 SERIES 7402-AAA-BB	
Cable length AAA	
040=	4.0 m
045=	4.5 m
080=	8.0 m
085=	8.5 m
Armor BB	
00 =	NO
01 =	YES

**Example transducer configuration**

Given: A 5 meter system, 3.0 in. case length 3/8-24 probe, 1 meter long, 0 in. unthreaded, no armor on probe, armored cable, driver w/DIN mount. Use:

- Probe: 10005-00-30-10-02
- Extension cable: 7402-040-01

## **SAFETY INTEGRITY LEVEL**

SIL is a method or measurement unit to determine the reliability of electrical, electronic and programmable systems. The purpose of the SIL certification is to measure safety system performance and the likelihood of failure. Achieving SIL certification, based on the IEC61508 Functional Safety Standard, signifies that the product has been thoroughly assessed and is a reliable electronic device ready to use across a wide range of industries.

Metrix DPS products have been thoroughly evaluated by an independent third party agency on the basis of IEC61508 Functional Safety standards to obtain SIL certifications.

**Note:** Metrix is continuously improving our products. Please refer to our website to download the latest version of this document.

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