

PVTVM's Proximity Probe Selection Guide

Part Number (Initial Prefix)	TM0105	TM0180	TM0110	TM0120
Probe Tip Size	5mm	8mm	11mm	25mm
Probe Model Type	Standard, 7200 compatible 3300XL compatible	Standard, 7200 compatible 3300XL compatible	Standard, 7200 compatible	Standard
Linear Range	80 mil, 2mm	80 mil, 2mm	160 mil, 4mm	470 mil, 12mm
Probe Lengths	0.5m or 1.0 m	0.5m or 1.0 m	0.5m or 1.0 m	
Extension Cable Lengths	4.0m, 4.5m, 8.0m or 8.5 m	4.0m, 4.5m, 8.0m or 8.5 m	4.0m, 4.5m, 8.0m or 8.5 m	
Integral Probe Extension Cable (Option)	5.0 m or 9.0m	5.0m or 9.0m	5.0m or 9.0m	Customer Specifies
Available with Armored Cable	•	•	•	•
Probe Driver	Required	Required	Required	Required
Hazardous Rating	•	•	•	



Proximity Transducers, Seismic Sensors and Accessories

25mm Proximity Probe TM0120 System

Linear range

The 25mm probe has up to 12mm (470mil) linear range. The probe is designed for measuring differential expansion. The TM0120 integrates the probe, and extension cable into one unit. Together with 25mm probe driver TM0122, they compose of a 25mm proximity probe system.

The TM0120 probe comes in lengths of 1m, 5m and 9m standard cable (2 conductor shielded cable). Non-standard cable length is available upon request.

System Specifications

Electrical

Power Supply:

22-30VDC @ 50mA. Galvanic isolation

Linear Range:

12mm (470mils) begins at about 2mm (80mils) from probe surface (AISI4140)

Sensitivity:

0.787 mV/um (20mV/mil) ± 4%

Temperature Sensitivity:

Probe and 5 meters cable within the operation temperature range, typical tolerance is within ±5% FS.

Linearity (deviation from straight line):

Within ±0.25mm (±10 mil) of a straight line

Frequency Response (±3db):

0 - 2.0 KHz

Minimum Target Size:

67mm (2.6") in diameter





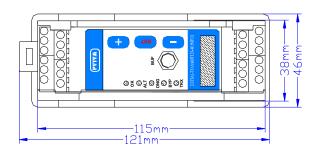
Environmental

Temperature: Operation: Storage: Humidity: 100% non-condensing

-35°C to +85°C -50°C to +100°C

Physical

Dimension: Height: 75mm (2.95"), see figuration. Weight: 2.0lbs (1.0kg).

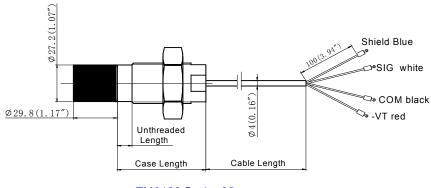


Rail Mounting



25mm TM0120 Proximity Probe Ordering Information

TM0120	-XX	-XX	-XX	-XX
25mm Integral Probe	Probe Type	Unthreaded Length	Case Length	Total Length
1.25-12 UNF; without armor;	-02	Standard: 00 (0.0 in)	Standard: 30 (3.0 in)	10 (1.0m)
standard		Increment: 01 (0.1 in)	Increment: 01 (0.1 in)	50 (5.0m)
1.25-12 UNF; with armor;	-03	Maximum: case length- 1.0 in	Minimum: 24 (2.4 in)	90 (9.0m)
standard			Maximum: 95 (9.5 in)	
1.25-12 UNF; armor with FEP	-033			
jacket				
M30×2; without armor;	-00	Standard: 00 (0 mm)	Standard: 07 (70 mm)	
standard		Increment: 01 (10 mm)	Increment: 01 (10 mm)	
M30×2; with armor; standard	-01	Maximum: case length- 20 mm	Minimum: 06 (60 mm)	
M30×2; armor with FEP jacket	-013		Maximum: 25 (250 mm)	
Smooth body, side exit;	-04	Standard: 30 (3.0 in)	Same as unthreaded length	
without armor		Increment: 01 (0.1 in)		
Smooth body, side exit;	-05	Minimum: 30 (3.0 in)		
with armor		Maximum: 95 (9.5 in)		
Smooth body, side exit;	-053			
armor with FEP jacket				
Smooth body, rear exit;	-06	Standard: 30 (3.0 in)	Same as unthreaded length	
without armor		Increment: 01 (0.1 in)		
Smooth body, rear exit;	-07	Minimum: 20 (2.0 in)		
with armor		Maximum: 95 (9.5 in)		
Smooth body, rear exit;	-073	1		
armor with FEP jacket				



TM0120 Probe 25mm

TM0122 Probe Driver Ordering Information TM0122-A0



25mm Probe System Field-Wiring Diagram

