



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, extension cable and the driver into one unit. This integral proximity probe is designed for easy field installation.

The TM0120 probe comes in lengths of 1m, 5m and 9m standard cable (2 conductor shielded cable).

System Specifications

Electrical

Power Supply:

Voltage: -15 to -30VDC

Current: < 12mA

Linear Range:

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

Sensitivity:

0.787 mV/um (20mV/mil) \pm 4%

Temperature Sensitivity:

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

Linearity (deviation from straight line):

Within \pm 0.25mm (\pm 10 mil) of a straight line



Frequency Response (\pm 3db):

0 - 2.0KHz

Minimum Target Size:

67mm (2.6") in diameter

Environmental

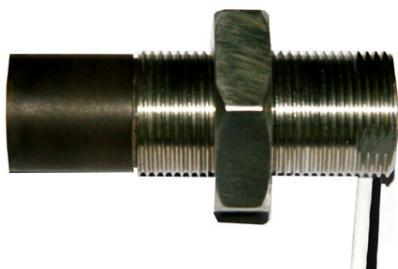
Probe Temperature:

Operation: -35°C to +85°C

Storage: -50°C to +100°C

Humidity:

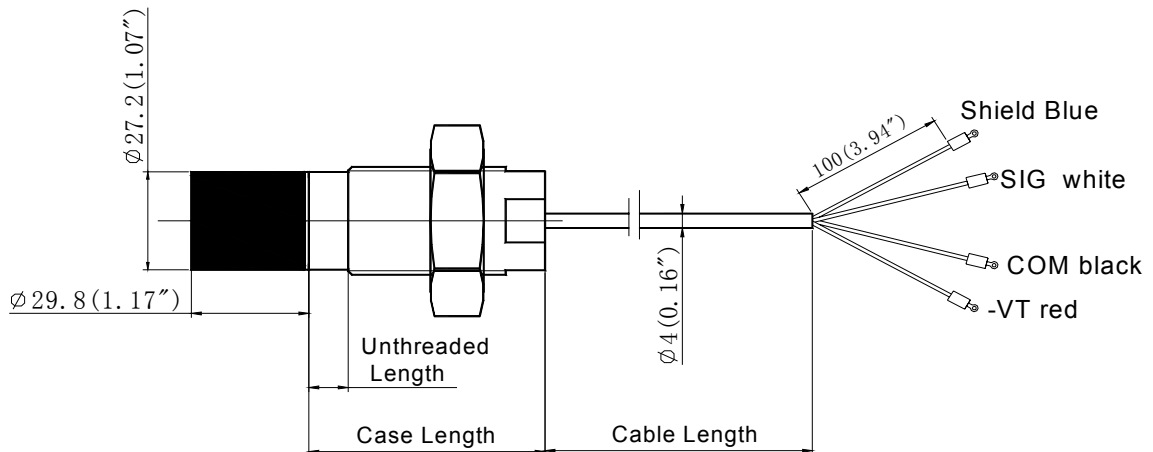
100% non-condensing





25mm TM0120 Integral Proximity Probe Selection Table

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



TM0120 Probe 25mm