



FE-925-CDT-xx

Precision

Capacitance

Displacement

Transducers

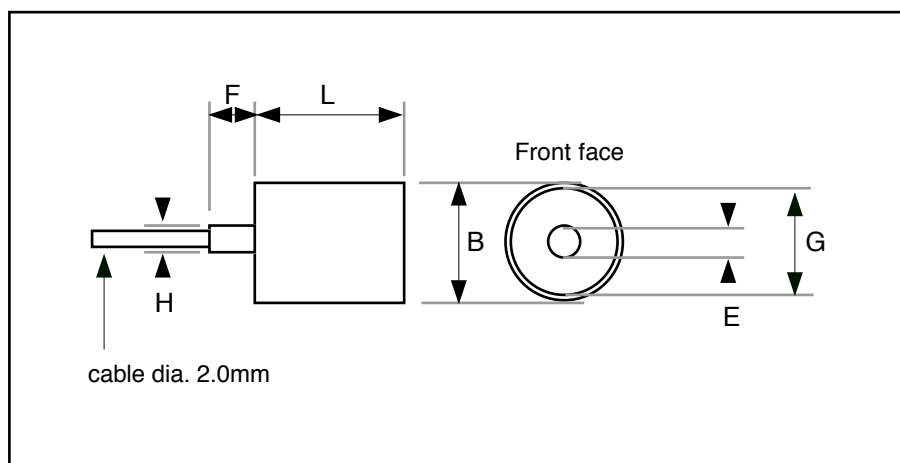
- VERY HIGH ACCURACY & THERMAL STABILITY
- FOR USE WITH METALLIC & NON-METALLIC SURFACES SUCH AS STEEL, ALUMINIUM, CERAMICS & GLASS
- OPERATING TEMPERATURE RANGE -25°C TO 250°C
- STAINLESS STEEL CONSTRUCTION
- IMMUNE TO MAGNETIC FIELDS
- OPERATES WITH FYLDE CDT AMPLIFIERS - FE-419-CDT, FE-420-CDT & FE-486-OCAM
- 2 METRE FLEXIBLE CABLE AS STANDARD, OTHER LENGTHS TO ORDER
- CUSTOM DESIGN SERVICE AVAILABLE

These precision Capacitive Displacement Transducers (CDT) have been developed to provide the best possible performance when using Fylde's range of industry proven CDT instrumentation.

Fylde can now provide a complete precision non-contact measurement system which may be applied to a wide range of industrial and laboratory applications.

For more information please see our web site or contact the factory directly.

Construction	Stainless Steel type 303
Linearity	up to $\pm 0.1\%$
Linear Range	$\pm 1.0\%$ up to distance equivalent to 100% of Electrode Diameter (E) <small>note 1</small>
Maximum Range	Equivalent to 250% of Electrode Diameter (E) <small>note 1</small>
Resolution	50 μm depending on probe and application, contact factory for more information.
Temperature Range	-25°C to +200°C recommended, 250°C maximum (short excursions).
Cable Type	Low Noise 100% screened coaxial flexible. IMPORTANT minimum bend radius of the cable is 1cm. DO NOT bend the cable within 5mm of the cable ferrule
Cable Length	2 metre standard. Other lengths to order.
Connector Type	Microdot Plug
Target Materials	Metallic & non-metallic surfaces, such as steel, aluminium, ceramics & glass <small>note 1</small>
Instrumentation	Compatible with Fyldes range of CDT amplifiers, FE-419-CDT, FE-420-CDT & FE-486-OCAM



Probe Part Number	L Body Length	B Body Diameter	G Guard Diameter	E Electrode Diameter	H Ferrule Diameter	F Ferrule Length	Outer Wall Thickness	Insulation Thickness
	mm ± 0.2 mm	Ømm +0/-0.1mm				mm ± 0.2 mm	mm ± 0.1 mm	mm ± 20 μm
FE-925-CDT-02	16	8	6.1	2	4	5	0.40	0.15
FE-925-CDT-04	20	16	14.1	4	4	5	0.95	0.15
FE-925-CDT-08	24	30	27	8	4	5	1.50	0.25

Note 1: Stated accuracy's & measurement ranges are against metallic surfaces with standard probes & cable lengths, use of non-metallic surfaces may reduce both range & accuracy.

- IMPORTANT**
1. Minimum bend radius of the cable is 1cm.
 2. DO NOT bend the cable within 5mm of the metal cable ferrule.