

# High performance inductive PD sensor

## HFCT 70mm

Techimp HFCT 70mm is an inductive sensor for Partial Discharge detection. It is suitable for online/offline PD tests on many electrical systems such as MV/HV cables, transformers, rotating machines and others.

Techimp HFCT 70mm can be easily installed on the ground connection of the electrical system under test having a ground cable or connector maximum diameter of about 70mm.

Techimp HFCT 70mm can be directly connected to any Techimp PD acquisition unit by means of a 50Ω coaxial cable.

The arrow on the enclosure indicates the polarity of the output voltage ( $V_{out}$ ) in relation to the input current ( $I_{in}$ ) direction. The sensor should be installed having the arrow towards the ground so that the detected voltage signal ( $V_{out}$ ) has the same phase as the input current ( $I_{in}$ ).

### Benefits

- Maintenance free
- High sensitivity and reliability
- Robust and easy to use
- Safety

### Specifications

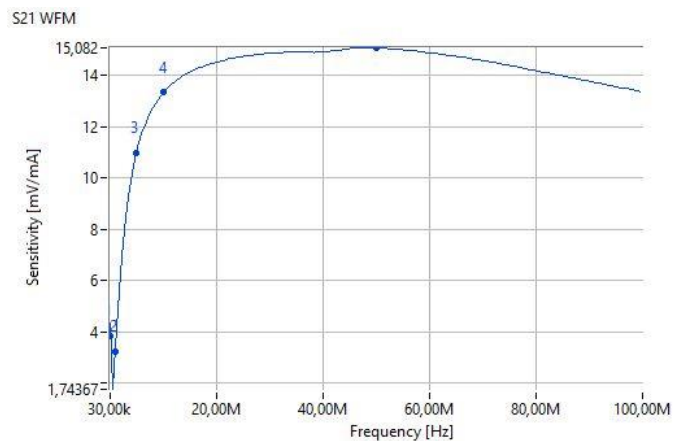
Bandwidth  
Max Sensitivity ( $V_{out} / I_{in}$  @5MHz)  
Load Impedance  
Hole dimension  
Operating temperature

1MHz ÷ 80MHz  
12mV/mA  
50Ω  
Φ 70mm  
-20°C +70°C

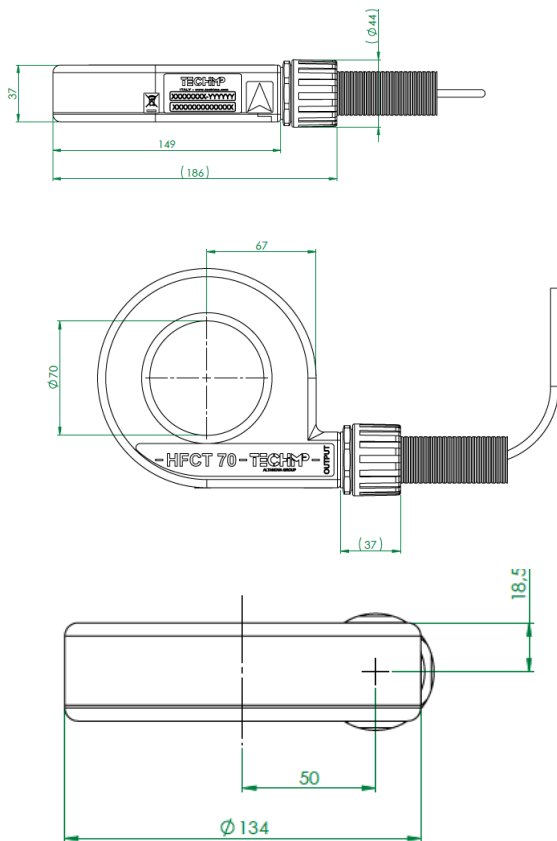


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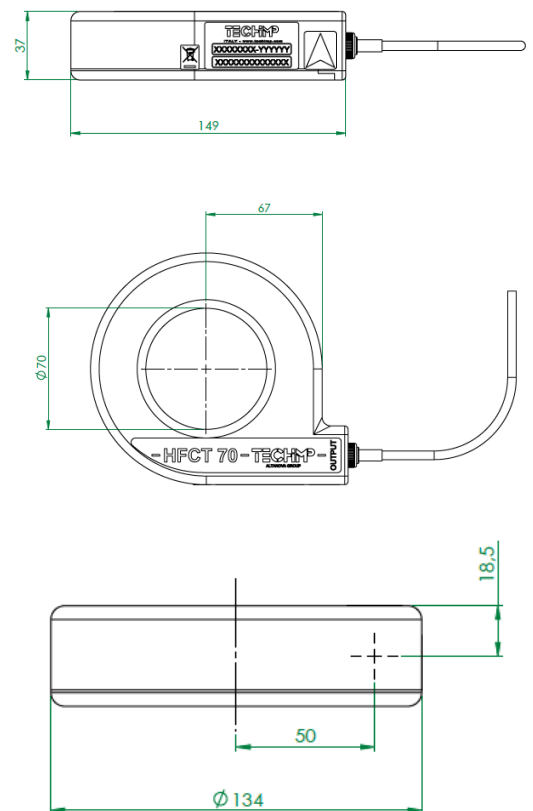
## Frequency Response



## Mechanical Specification DUCT VERSION



## Mechanical Specification BNC VERSION



Suitable For

HVAC CABLE	MVAC CABLE	HVDC CABLE	MOTOR	GENERATOR	PWM VSD	GIS GIL GIB	SWITCH BOARDS	OUTDO OR INSULATOR	HV TRAFO	MV TRAFO	TA/TV
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Several different sensors are available, fully compatible with Techimp Global Diagnostic platform. They can be freely combined at customer needs provided they can be applied for the specific application.

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