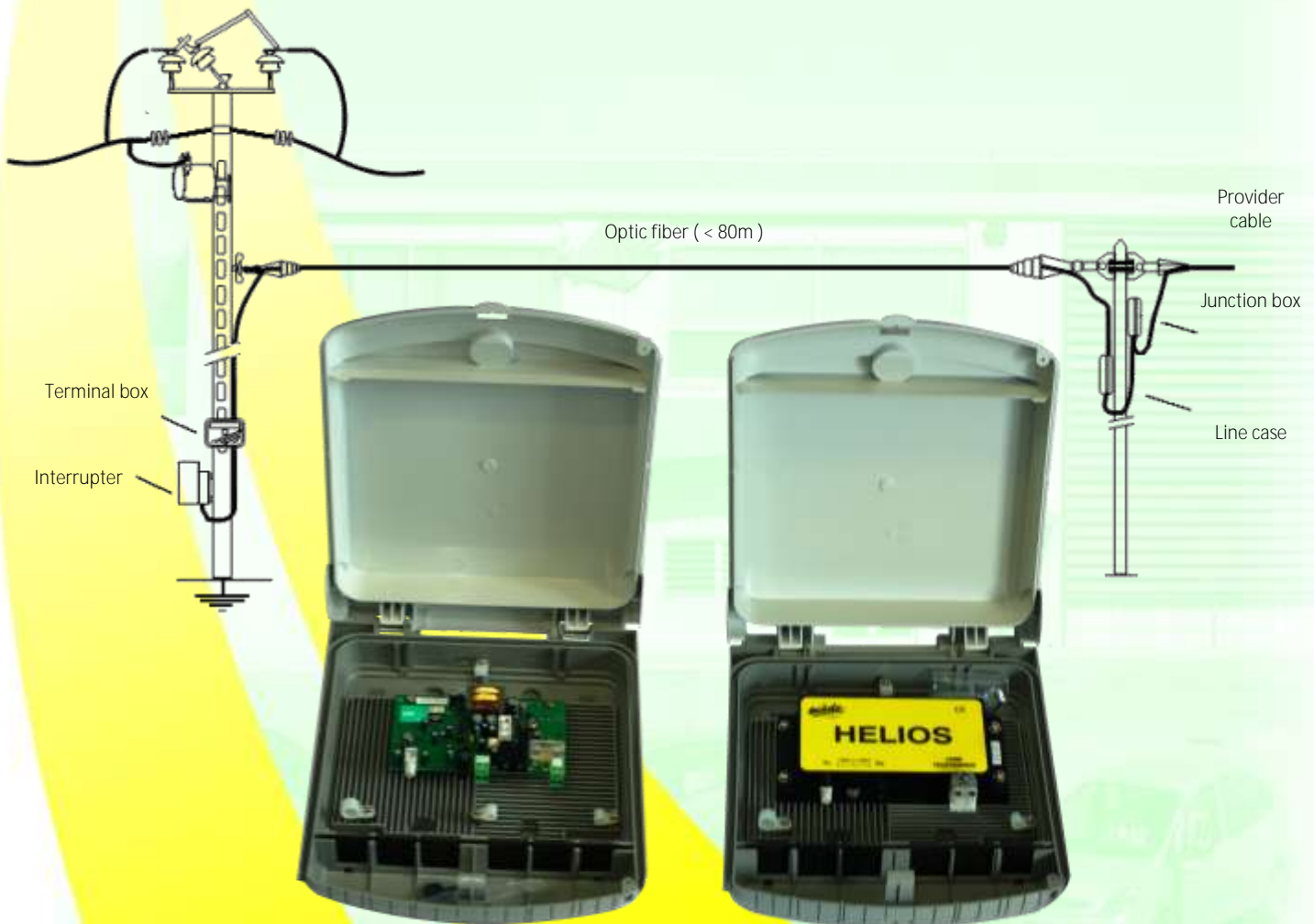


# GALVANIC PROTECTION FOR EQUIPMENT AND PEOPLE AGAINST VOLTAGE SPIKES



## HELIOS

*Made*

*Electrical, Gas, and Safety*

## APPLICATION

HELIOS protects the telecommunication network and equipments connected against raises of potential from an electric origin, or against lightning strikes.

HELIOS can be interfaced to modems, fax, phones, or remote controlled aerial interrupters.

## PRESENTATION

HELIOS is composed of 2 modules linked by a double plastic optic fiber line (simplicity of operation). The fiber optic line is armed with a Kevlar shield permitting an aerial installation, as well as a buried one. Maximum distance between the 2 modules : 80 meters. Transmission is digitalized.

Terminal side : The card is supplied in 12V or 48V = (alimentation 230V or 57V~ in option).

Terminal side is delivered in a waterproof case, or can be integrated in an application.

Line side : The card is molded in a high strength dielectric resin (humidity and water proof)

This module is self powered by the telecommunication line and does not require to be earthed.

## TECHNICAL CHARACTERISTICS

PHONE LINE SIDE	TERMINAL SIDE
Electrical characteristics	
Quiescent current : 14 $\mu$ A Line current : 30 à 50 mA Ringing detection : 25V eff. Dielectric signal > 100kV	Power supply 12V=(10 to 16V nominal) 48V=(42 to 54V nominal) in option Maximum current : 400 mA (12V) Ringing tension : 35V eff. Maximum attenuation : 1,5 dB Consumption : <100 mA at 12V
Mechanical characteristics	
Molded card : 175x85x32 cm Integration in a POUYET BMX rack Rack dimensions : 290 x 255 x 90 (L x l x H)	Dimensions of the card : 135x75x32 cm <u>Integration of the module</u> : In the equipment In the box on a DIN rail In a POUYET BMX rack
Installation	
To fasten on a Telecom provider pole (strapping) or to a wall Connection of the optic fiber by 2 rapid lockup plugs Connection of the telecom line with screws on the MX connectors (POUYET) Choice <50m or $\geq$ 50m	Alimentation on (12 to 48V=) displayed by a green LED Connection of the optic fiber by 2 rapid lockup plugs Connection of the telecom line with screws Line test by 2 banana sockets $\text{\AA}$ 4mm

Standards : Conducted and radiated Emissions EN 55022 Class B— Immunity : EN 50085-1

Electrical safety : EN 60960 - Technical rules : Z81.23A et Z81.025

Agreement France TELECOM : n° 98578 Z



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August 2009  
 MADE – V 1.00



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