

# GALVANIC PROTECTION FOR EQUIPMENT AND PEOPLE AGAINST VOLTAGE SPIKES



## HELIOS E



*Electrical, Gas, and Safety*

## PRESENTATION

HELIOS E is a galvanic protection case having on one side « Line » and on the other side « Terminal ».  
The galvanic insulation is greater than 8 KV RMS, 50 Hertz. It can also be 25 Hertz if requested.  
The electronics are moulded in a high dielectric resin.

- Line side : HELIOS E is self-supplied (Neither batteries nor solar panels).
- Terminal side : The TNR supply is generated by HELIOS E.

## CONNECTION SCHEME



## TECHNICAL CHARACTERISTICS

Dielectric strength: 8 kV eff 50Hz during 1 minute between access and ground.

Bandwidth : From 800 Hz to 700 kHz  $\leq$  to 1 dB.

Stream flow : 64 kbps to 144 kbps.

Code type : 2B1Q.

Kind of connection : Transfix, Transfix 2.0 et RNIS T0.

Nominal impedance : 135  $\Omega$ .

Functioning : Remotely powered. Consumption  $\leq$  to 40  $\mu$ A in rest, line voltage up to 56 Vdc.

Helios is 'transparent', no disturbance on general output. Line voltage PABX side with or without galvanic protection is almost similar. Operation warranted, off-hook, up to a line voltage from 70 to 130 Vdc

Grounding : The ground connection is made by the case fixing screws.

Operating temperature : - 25°C to + 55°C.

Storage temperature : - 40°C to + 70°C.

Humidity limit : 95% max.


Mechanical Characteristics :

Weight : 1.600 g. Case in high impact polystyrene and polyurethane resin.

Dimensions : 100 x 85 x 110 (L x l x H)

Fixed by 4 screws  $\varnothing$  M5, pitch center : 62x59 mm. Connection by ENTRELEC type screw connectors.

HELIOS E must be integrated into a « CPM POUYET – 3M » rack.

Standards : HELIOS E 

Conducted and radiated Emissions : EN 55022 Class B.

NF EN 61000-4-2, NF EN 61000-4-3, NF EN61000-4-4, NF EN 61000-4-5, NF EN 61000-4-6.

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MADE

S.A. au capital de 270 130 €

167, Impasse de la garrigue F 83210 LA FARLEDE

E-mail: [contact@made-sa.com](mailto:contact@made-sa.com) - Web : [www.made-sa.com](http://www.made-sa.com)

EUROPE-AFRICA-ASIA USA -CANADA-SOUTH AMERICA

Tél : + 33 (0) 494 083 198

Tél : + 1 (646) 233 2243

FAX : + 33 (0) 494 082 879

FAX : + 33 (0) 494 082 879

