

## Technical sheet FT60010- Code VAR10EPSB

Ref – Series-connected mini SPD

Code 60010

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### Designation

Ultracompact mini SPD, I<sub>max</sub> 10kA, U<sub>c</sub> 305V, U<sub>p</sub> 1.5kV, with fault light indicator.

### Applications

Mini SPD, I<sub>max</sub> 10kA, U<sub>c</sub> 305V, U<sub>p</sub> 1.5kV, with fault light indicator and optimal readability in optical fiber. Operating voltage is adapted to electrical disturbances on power networks. Series-connection version with interruption of the power supply: the VAR10EPSB SPD is ready to be wired thanks to its pluggable terminal strips. Installation and maintenance are greatly facilitated.

### Description

Based on the NFEN61643-11 standard, the type-2 VARIO® SPD are to be installed in exterior or street lighting equipment (lighting poles, ground beacons, lanterns) or in devices where space is scarce (side control boxes, automated gates, alarm control systems) for the protection against atmospheric overvoltage surges in common and differential mode.

Especially designed for LED lighting applications, the VAR10EP range protects reliably all the very sensitive electronic components which are present in such devices.

The spark-gap & varistor technologies are both combined in a minimum of space.

### Technical specifications

- Dimensions: 56x37x27 mm
- Max steady-state voltage U<sub>c</sub> 305Vac
- Earthing systems: TT/TN
- Voltage protection level U<sub>p</sub>: 1.5kV
- Nominal discharge current I<sub>n</sub>: 5kA
- Maximal discharge current I<sub>max</sub>: 10kA
- Maximal consumption current of the protected device: I<sub>l</sub> = 5A
- Complies with the NF EN 61643-11 standard
- Operating temperature range : -40°/+70°C.
- Stripping length for terminal strip connections: 10mm.
- Maximal section maxi for terminal strip connections: 2.5mm<sup>2</sup> rigid.
- Associated disconnector : 16A-circuit-breaker or 20A-fuses
- Synchronic thermal disconnection
- Made in France



## Installation requirements

When the SPD is connected and the light indicator is on, overvoltage protection is operative. Overvoltage surges between phase and neutral as well as between active conductors and the earth will be clamped. The End-of-Life (EoL) thermal warming of varistors caused by cumulative small surges (thus generating a smaller current than the nominal discharge current  $I_n$ ) or by an outstanding overvoltage surge is suppressed thanks to an internal thermal disconnecter.

Open EoL with interruption of the power supply for series-connected SPDs: the fault light indicator goes off and the integrated thermal disconnecter stop the supply of the downstream equipment.

Upstream connection is protected thanks to a 16A-circuit-breaker or 20A-fuses.