

I1-AIS-300

Isolator Module

Description



I1-AIS-300 is an isolator module that is used to isolate the circuit in the event of a short circuit in the loops of the addressable control center. If a short circuit occurs in a part of the wiring route that is isolated by this module, the connection of that part will be separated from the other parts of the circuit. So, the other elements will continue to their normal function without any disturbance.

Features

- Designed according to EN 54-17 standard.
- No need for addressing and external power supply
- Compatible with the WISE addressable panel and other SENS addressable panels
- SMD technology
- Reliable performance
- Low power consumption
- Capability to isolate up to 30 elements for better performance of the addressable system.
- Automatic fault recovery after fixing the short circuit.

Technical Specifications

Operating voltage	27V
Maximum Stand by consumption	350 μ A @ 27V
Operating temperature	-10 to 70 °C (Type B)
Humidity	95% (without condensation)
Maximum line voltage	28V
Minimum line voltage	15V
The maximum voltage at which the device isolates ($V_{SO\ max}$)	3.4V
The minimum voltage at which the device isolates ($V_{SO\ min}$)	0V
The maximum voltage at which the device reconnects ($V_{SC\ max}$)	27V
The minimum voltage at which the device reconnects ($V_{SC\ Min}$)	3.5V
maximum rated continuous current with the switch closed ($I_{C\ max}$)	7.25mA
maximum rated switching current ($I_{S\ max}$)	400mA
Maximum leakage current ($I_{L\ max}$)	5mA
maximum series impedance with the switch closed ($Z_{C\ max}$)	4k Ω
Dimensions	25×55×95 mm
Weight	45gr

Application

I1-AIS-300 is used to isolate a number of elements from others in the loops with non-isolated elements for better system performance when a short circuit occurred in the loop.

Construction

The I1-AIS-300 module case is made of durable ABS plastic and has a simple and practical frame design.