

IRE168DS Exi

Electronic Temperature Controller for use with PT100 temperature sensors.



Exi Electronic Controller



- Compact Design
- Multi-Voltage Input
- 2-line Display (Set- and Process Values)
- 16A & 8A Volt-free Output Contacts
- Password Protected

Description

The IRE168DS Exi is an electronic device, part of a trace heating system, mounted in a safe area. Any Pt100 temperature sensor can be installed in a hazardous area and becomes a component of the intrinsically safe circuit when connected to this electronic controller.

Its design allows it to be either rail mounted on a standard TS35 DIN-rail or panel mounted through a 70 x 45 mm cut-out.



Technical Data

Rating:	100-240V
Switching Capacity:	1 x 16A c/o contact 1 x 8A n/o contact
Switching Accuracy:	0,5% of Scale Range +1 Digit at 25°C
Operating- / Storage-temperature:	-5°C to +55°C -20°C to +85°C
Temperature Range:	-200°C to +800°C
Power Consumption:	max. 4W
Sensor Loop:	$U_o = 3.72V$ $I_o = 0.433A$ $P_o = 1.057W$
Max. ext. capacity:	$C_o = 8.8\mu F$
Max. ext. inductance:	$L_o = 95\mu H$
Dimensions (LxWxH): Panel Cut-Out:	71 x 86 x 62mm 70 x 45mm
Weight:	185 g

Marking

Ex II (2) G [Ex ib] IIC/IIB Gb

Certificates

ATEX

Ordering Information

Part-Number:
IRE168DS Exi: Electronic Controller 16+8A

Further Products

Part-Number:
IRPT100: 3-wire 2.5m PT100 Sensor

Terminal Connections

Terminal	Description
10/11/12	Sensor Connection
13/14/15	16A SPDT c/o Contacts
18/19	Power Supply 100-240V
23/24	8A SPST n/o Contacts

Further Information

Operating instructions must be observed.