

iISOLATE100 Intrinsically Safe PS2/Serial Interface Isolator



Galvanic isolation for keyboards, pointing devices, barcode scanners and other RS232/RS485 serial interfaces

ATEX II (2) GD [EEx ia] IIC

-30°C to +60°C (-22°F to +140°F)

IP20

Overview

The iISOLATE100 is an ATEX certified intrinsically safe PS2 and serial interface suitable for industrial use. The device allows connection of hazardous area peripherals such as pointing devices, keyboards and scanners to PC systems located in a safe area. The iISOLATE100 is designed for use with Extronics own range of keyboards and pointing devices such as trackball, trackpad or finger mouse but can be used with other manufacturers compatible equipment.

Features and Benefits

Multiple Applications

The unit is simple to operate and is available in a variety of configurations as specified in the ordering data below.

No High Integrity Earth Required

With both galvanic and optical isolation for the power and the interfaces no high integrity earth is required or consideration about potential differences occurring meaning low simple and trouble free installation.

Long Distance Connection

Keyboard or pointing device may be up to 20 metres away from the PC in the hazardous area using a PS2 cable or up to 70 metres using a CAT6 STP cable

Specification

Certificate Number	TUV 04 ATEX 2645
Certification Type	ATEX II (2) GD [EEx ia] IIC
Dimensions	105 x 166 x 44 mm (w x h x d) 4.13 x 6.54 x 1.73 inches
IP Rating	IP20
Ambient Temperature	-30°C to +60°C (-22°F to +140°F)
Weight	0.25Kg (0.55lbs)
Relative humidity	0 to 75%, non-condensing
Housing	Aluminium
Electrical Connection	Screw terminals & PS2 connectors—Supplied with two PS2 leads for connection to PC ports
Power Supply	Powered from PC PS2 port or separate 5 VDC supply
Mounting	Surface using two brackets supplied
Interfaces	2 x PS2, One can be configured for single direction RS232 (Rx from hazardous to safe area) Optional keyboard/mouse wedge for safe area

Ordering Information

Description

Intrinsically Safe Keyboard Interface two PS/2 safe area to two PS/2 hazardous area
Intrinsically Safe Keyboard Interface PS/2 Keyboard Wedge
Intrinsically Safe Keyboard Interface PS/2 and RS232
Intrinsically Safe Keyboard Interface PS/2 and RS485

Part Number

iISOLATE100-EX01
iISOLATE100-EX02
iISOLATE100-EX03
iISOLATE100-EX04

Options

PS/2 to USB converter

USBCONV1