iSOLATE100M Intrinsically Safe PS2/Serial Interface Isolator for location in the hazardous area

Galvanic isolation for keyboards, pointing devices, barcode scanners and other RS232/RS485 serial interfaces suitable for location in the hazardous area

ATEX II 2 G EEx m [ia] IIC T4 II D T75°C IP67

-30°C to +60°C (-22°F to +140°F)

IP67

Overview

The iSOLATE100M is an ATEX certified intrinsically safe PS2 and serial interface suitable for hazardous area mounting. The device allows connection of hazardous area peripherals such as pointing devices, keyboards and scanners to PC systems located in a safe area. The iSOLATE100M 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.
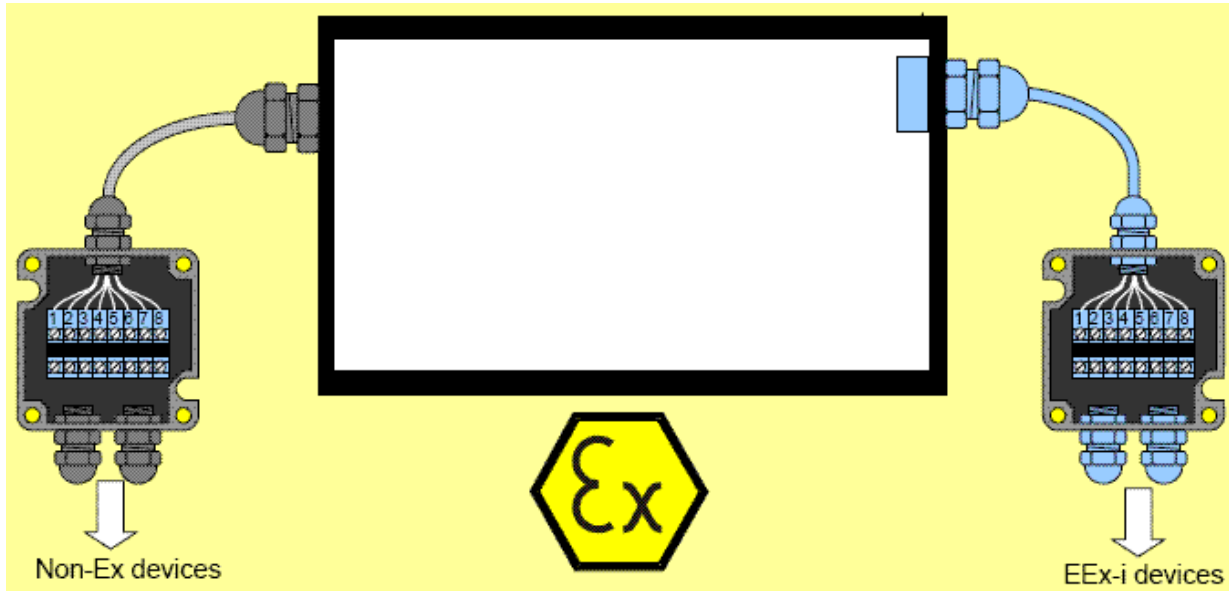
Long Distance Connection
Keyboard or pointing device may be up to 20 metres away from the PC in the hazardous area using a PS2 cable or up to 70 metres using a CAT6 STP cable

Location
Suitable for location in zone 1 hazardous area

Specification

Certificate Number	TUV 04 ATEX 2645
Certification Type	ATEX II 2 G EEx m [ia] IIC T4 II D T75°C IP67
Dimensions	105 x 166 x 44 mm (w x h x d) plus connection enclosures 4.13 x 6.54 x 1.73 inches
IP Rating	IP67
Ambient Temperature	-30°C to +60°C (-22°F to +140°F)
Weight	1.6Kg (3.53lbs)
Relative humidity	0 to 75%, non-condensing
Housing	Aluminium. Terminal Enclosures GRP.
Electrical Connection	Exe / Ex I Rated Terminal enclosures
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

Non-Ex devices

EEx-i devices

Ordering Information

iSOLATE100M   **iSOLATE100M-[#1]-[#2]]-[#3]**

Please Specify [#1] - Type of configuration
Intrinsically Safe Keyboard Interface two PS/2 safe area to two PS/2 hazardous area   EX01
Intrinsically Safe Keyboard Interface PS/2 Keyboard Wedge   EX02
Intrinsically Safe Keyboard Interface PS/2 and RS232   EX03
Intrinsically Safe Keyboard Interface PS/2 and RS485   EX04

Accessories
PS/2 to USB converter   USBCONV1
Keyboard/Mouse Extender   CE120