

PS2-IS-BARRIER

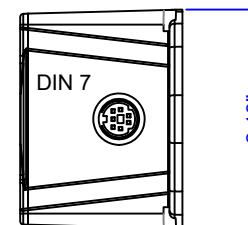
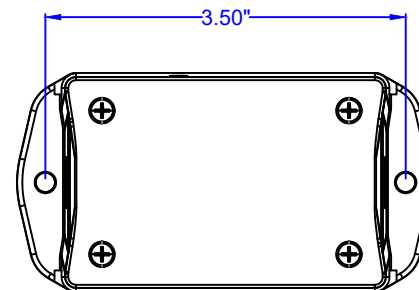
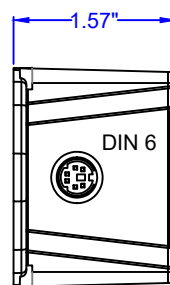
DATE	CHANGES	INTL	REV
09.18.18	Original	AH	1.0
12.17.18	Updated safety wire AWG	AH	1.1
01.18.19	Major updates per "FM comments on MKT0472 1.1, 1-18-19.docx"	AH	2.0

DESCRIPTION: The PS2-IS-BARRIER is an FM Approved associated apparatus (Zener Diode Barrier). The barrier is enclosed within an ABS plastic case.

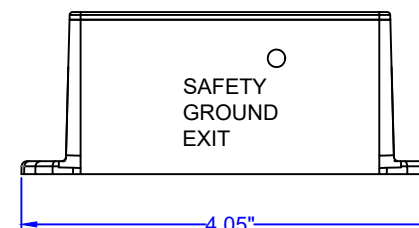
USE: The PS2-IS-BARRIER is intended for installation within a non-hazardous location and provides intrinsically safe (entity) circuits to intrinsically safe PS2 computer peripherals such as keyboards and pointing devices located within a Division 1 hazardous (classified) location.

MAINTENANCE: No maintenance is required. There are no serviceable parts. **WARNING: DO NOT ATTEMPT REPAIR. SUBSTITUTION OF COMPONENTS MAY IMPAIR PROTECTION OF INTRINSICALLY SAFE CIRCUITS.**

INSTALLATION: The PS2-IS-BARRIER shall be installed in a non-hazardous location. The barrier provides intrinsically safe apparatus located within hazardous (classified) locations as detailed in the Certification and Operating Specifications section. Installation shall be in accordance with NEC Article 504, ANSI/NFPA 70, ISA RP 12.06.01 and iKey drawing number HL0079.



DIN 6 Pinout:
 Pin 1: PS2 Data
 Pin 2: Ground
 Pin 3: Ground
 Pin 4: +5V (VCC)
 Pin 5: PS2 Clock
 Pin 6: Ground



DIN 7 Pinout:
 Pin 1: Ground
 Pin 2: Ground
 Pin 3: PS2 Data
 Pin 4: +5V (VCC)
 Pin 5: Ground
 Pin 6: PS2 Clock
 Pin 7: Ground

CERTIFICATION AND OPERATING SPECIFICATIONS:

INTRINSIC SAFETY:

Class I, Division 1, Groups A/B/C/D
 Class II, Division 1, Groups E/F/G
 Class III, Division 1

STANDARDS FOR US APPROVAL:

FM Class 3600:2018
 FM Class 3610:2018
 FM Class 3810:2018

WEIGHT:

0.03 lbs (0.013 kg)

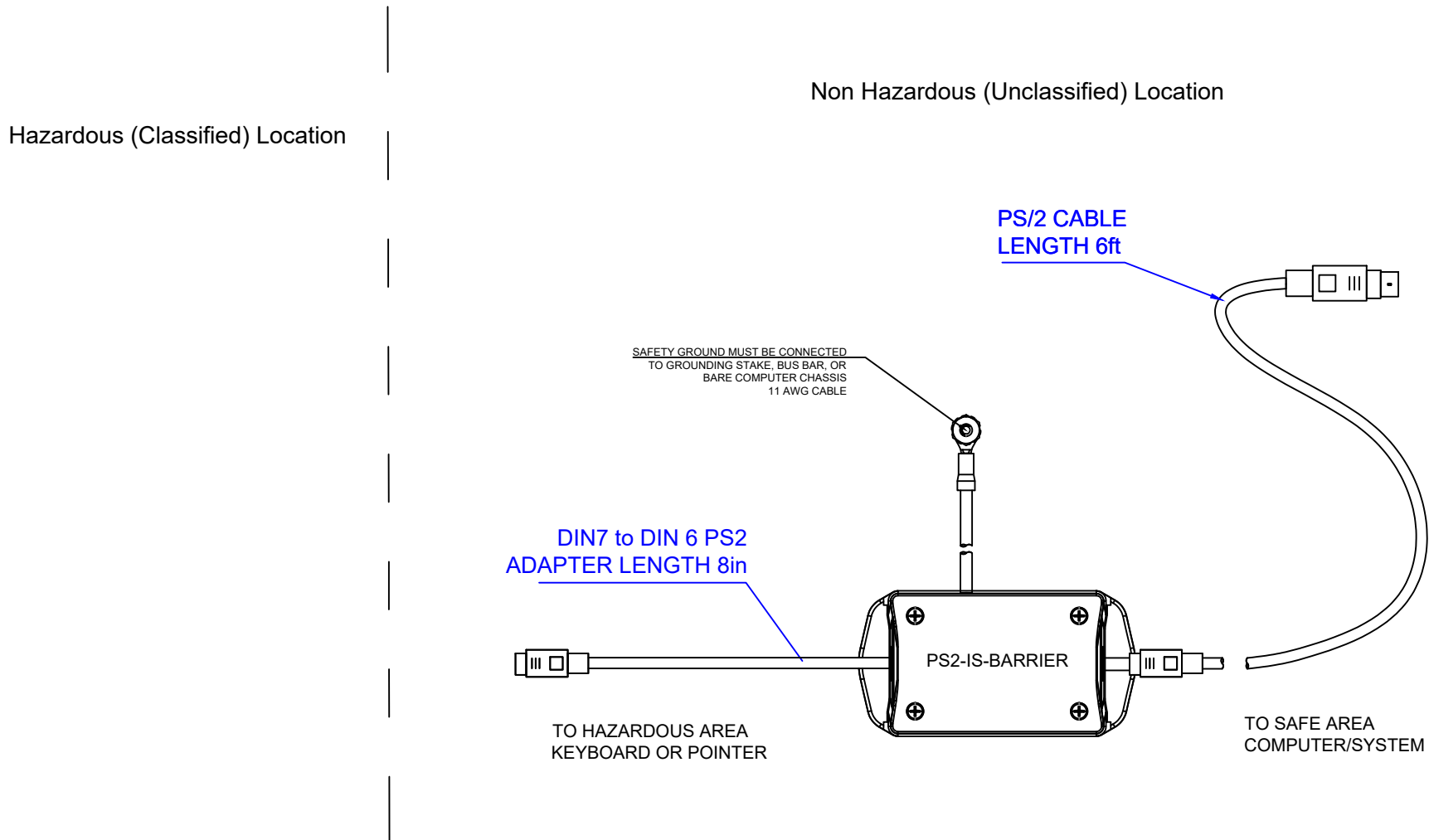
POWER:

Connects to circuits operating at 5V. Dissipates 9mW in normal operation. Reference drawing HL0079 for maximum output values under fault conditions.

No revision to drawing
w/o prior FM approval

PROPRIETARY AND CONFIDENTIAL

ASSEMBLING AND DISMANTLING: The PS2-IS-BARRIER Isolation Barrier must be assembled with the Safety Ground connected to a grounding stake, bus bar, or bar computer chassis as shown in the connection diagram below and in accordance with Drawing Number HL0079. There are no serviceable parts in this assembly.



No revision to drawing w/o prior FM approval



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Part Number: PS2-IS-BARRIER
Drawing Title: PS2-IS-BARRER-MKT

Drawing Number: MKT0472
Revision: 2.0

Sheet: 2 OF 2
Date: 01.18.19 ALH