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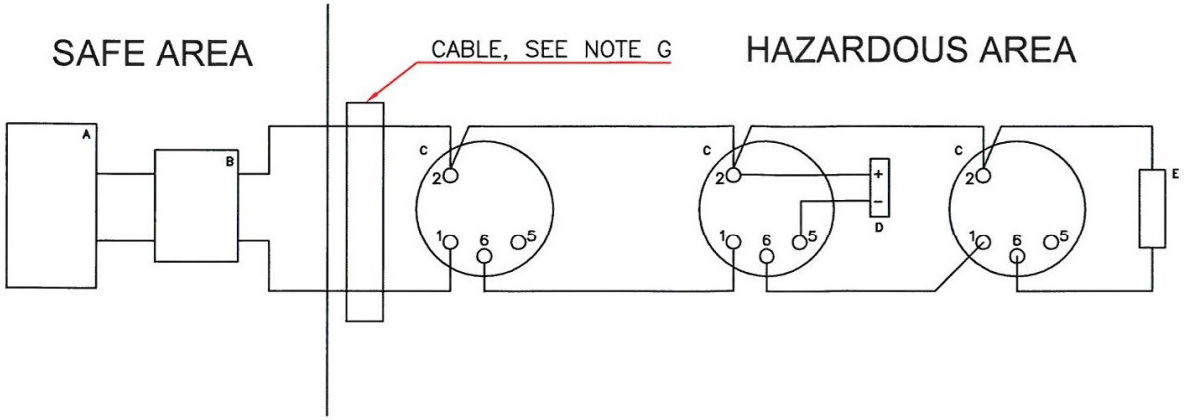
UB-4-IS & EV-SPB-IS BASE INSTALLATION INSTRUCTION SHEET



A) Apparatus which is unspecified except that it must not be supplied from nor contain in normal or abnormal conditions a source of potential with respect to earth in excess of 250 volts d.c.

B) Any single channel shunt zener diode safety barrier or single channel of a dual shunt zener safety certified by any EEC Approved Certification Board to (EEx ia) IIC having the following or lower output parameters:-

Uo = 28V	Ui = 28V	Ei = 93.3mA
Io = 93.3mA	Pi = 0.6W	Li = negligable
Po = 0.66W		Ci = 1nf

In any saftey barrier used the output current must be limited by a resistor 'R' such that
Io = Uz/R
or
One of the following isolators:-
1) MTL5061 DC Isolator (BAS01ATEX7160)
2) MTL4061 Two channel Fire & Smoke detector interface (BAS01ATEX7176)
3) KFD0-CS-Ex1.54 Isolator (BAS00ATEX7087X)
4) KFD0-CS-Ex2.54 Isolator (BAS00ATEX7087X)
5) KFD0-CS-Ex1.51P Isolator (BAS98ATEX7343)
6) KFD0-CS-Ex2.52P Isolator (BAS98ATEX7343)

C) Up to 20 Type EVC-PY-IS optical smoke detectors and type UB-4-IS or EV-SPB-IS Bases (Certificate No: ITS09ATEX26418X).

D) An optional RIL circuit, comprising an LED, two diodes and a resistor, may be connected to terminals 2 and 5 of a smoke detector and mounting base. The surface area of the RIL circuit components must be greater than 20mm. The RIL circuit may be considered to have a temperature class of T4 in a maximum ambient temperature of 50 Deg. C. The RIL circuit and its terminations must be afforded a degree of protection of at least IP20 and must be segregated from other circuits and conductors as defined in clause 6 of EN50020:2002.

E) An end of line resistor meeting the same requirements as for the RIL circuit mentioned above may be connected to the base terminals 2 and 6.

F) The installation must comply with the European Harmonised Standard EN60079 Part 14: 2008.

G) The capacitance and inductance or inductance to resistance (L/R) ratio of the hazardous area cable must not exceed the values in the table below:-

GROUP	CAPACITANCE IN µF	INDUCTANCE IN mH	OR	L/R RATIO IN µH/Ohm
IIC	0.083	3.05		46
IIB	0.650	9.15		200
IIA	2.15	24.4		360

H) A durable label as shown below, to be affixed at the interface of the IS and non-IS circuits.

System No.
Ex
Ex ia IIC T4, Ta = 50°C

I) The electrical circuit in the hazardous area must be capable of withstanding an a.c. test voltage of 500V rms to earth or frame of the apparatus.

Certified product
No modifications permitted without reference to notified body

 Description: Base for use with intrinsically Safe EVC-PY-IS Smoke detector