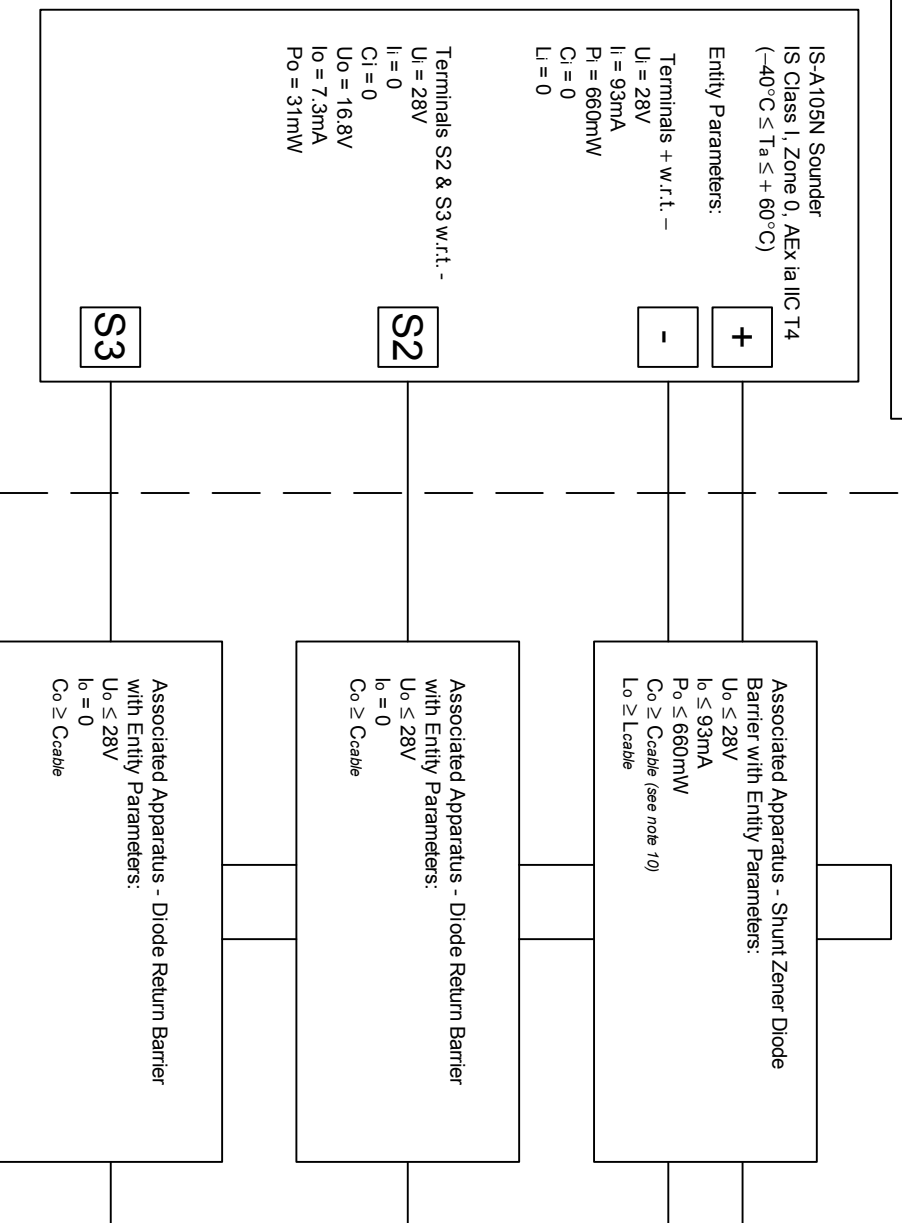


Hazardous (Classified) Location  
Class I, Division 1, Groups A, B, C, D  
Class I, Zone 0, Groups IIA, IIB, IIC

Unclassified Location



1. No revision to drawing without prior FM approval.
2. The associated apparatus must be FM approved.
3. The associated apparatus manufacturer's installation drawing must be followed when installing this equipment.
4. Installation should be in accordance with ANSII/ISA RP12.06.01 "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National Electrical Code (ANSI/NFPA 70).
5. The resistance between the intrinsically safe ground and the earth ground must be less than 1 ohm.
6. The Shunt Zener Diode Barrier must be a FM approved, resistively limited, single channel barrier having parameters less than, or equal to, those quoted, and for which the output is non-ignition capable for the Class, Division or Zone and Group of use.
7. The IS-A105N Sounder enclosure has an ingress protection rating of IP 66. If supplied without cable entry devices then metallic or plastic cable glands, or conduit hubs, shall be fitted that provide the required environmental protection.
8. To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.
9. Substitution of components may impair safety.
10. The total capacitance connected to terminals +/- of the sounder, i.e. Cable plus any other capacitance, shall not exceed 83nF.

Notes:

CAUTION - Bonding between conduit connections is not automatic and must be provided as part of this installation.

CAUTION - The clearance between sounder terminals S2 and S3 is less than 6mm.

SCHEDULE DRAWING

No modification permitted without reference to the "Notified Body"

Issue:	Appd.	Date:	Drawn:	Date:
A	MRS	17-02-06	GU	19-10-05

Title  
IS-A105N Sounder  
Control Drawing for shunt zener diode barrier / diode return barrier.



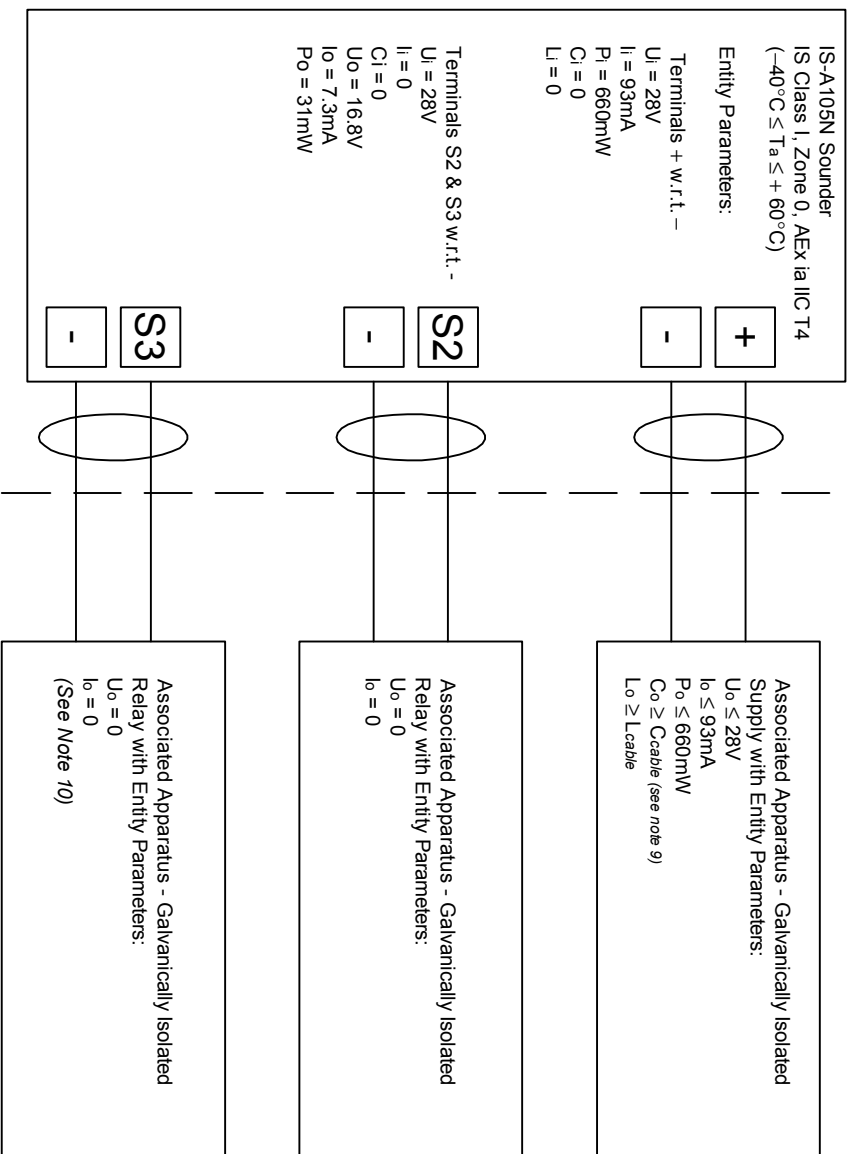
European Safety Systems Ltd.  
Impress House  
Mansell Road  
Acton  
London W3 7QH

Drawing No.  
**D 4528 Sheet 1 of 2**

Computer Ref: D 4528a.dwg

Hazardous (Classified) Location  
 Class I, Division 1, Groups A, B, C, D  
 Class I, Zone 0, Groups IIA, IIB, IIC

Unclassified Location



1. No revision to drawing without prior FM approval.
2. The associated apparatus must be FM approved.
3. The associated apparatus manufacturer's installation drawing must be followed when installing this equipment.

4. Installation should be in accordance with ANSI/ISA RP12.06.01 "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National Electrical Code (ANSI/NFPA 70).

5. The Galvanically Isolated Supply must be a FM approved, resistively limited, single channel supply having parameters less than, or equal to, those quoted, and for which the output is non-ignition capable for the Class, Division or Zone and Group of use.

6. The IS-A105N Sounder enclosure has an ingress protection rating of IP 66. If supplied without cable entry devices then metallic or plastic cable glands, or conduit hubs, shall be fitted that provide the required environmental protection.

7. To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.

8. Substitution of components may impair safety.

9. The total capacitance connected to terminals +/- of the sounder, i.e. *C<sub>cable</sub>* plus any other capacitance, shall not exceed 83nF.

10. The *C<sub>cable</sub>* and *L<sub>cable</sub>* of the cables connecting the galvanically isolated relays to sounder terminals S2/- and S3/- shall be less than, or equal to, the *C<sub>cable</sub>* and *L<sub>cable</sub>* of the cable connecting the galvanically isolated supply to sounder terminals +/-.

Notes:

CAUTION - Bonding between conduit connections is not automatic and must be provided as part of this installation.

CAUTION - The clearance between sounder terminals S2 and S3 is less than 6mm.

SCHEDULE DRAWING  
 No modification permitted without reference to the "Notified Body"

Issue:	A	Appd.	MRS	Date:	17-02-06	Drawn:	GU	Date:	19-10-05

Title  
**IS-A105N Sounder**  
**Control Drawing for galvanically**  
**isolated supply / isolated relay**  
**installation.**



European Safety Systems Ltd.  
 Impress House  
 Mansell Road  
 Acton  
 London W3 7QH  
 Drawing No. **D 4528** Sheet **2 of 2**  
 Computer Ref. D.4528b.dwg