

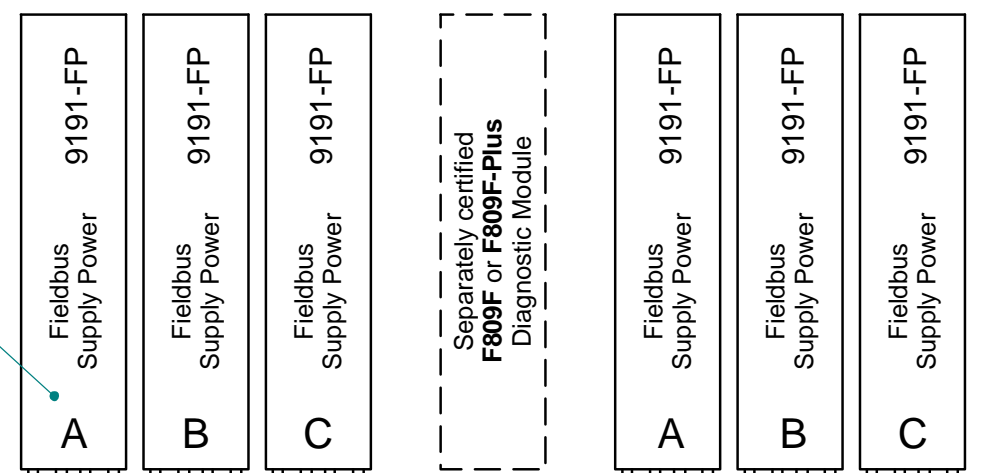
Do Not Scale

Dimensions in mm

**HAZARDOUS (CLASSIFIED) LOCATIONS:**  
 Class I, Div 2, Groups A, B, C & D  
 Class I, Zone 2, IIC  
 -20°C ≤ Tamb ≤ 60°C

**NON-HAZARDOUS (UNCLASSIFIED) OR Class I, Div 2, Groups A, B C & D OR Class I, Zone 2, IIC LOCATION**

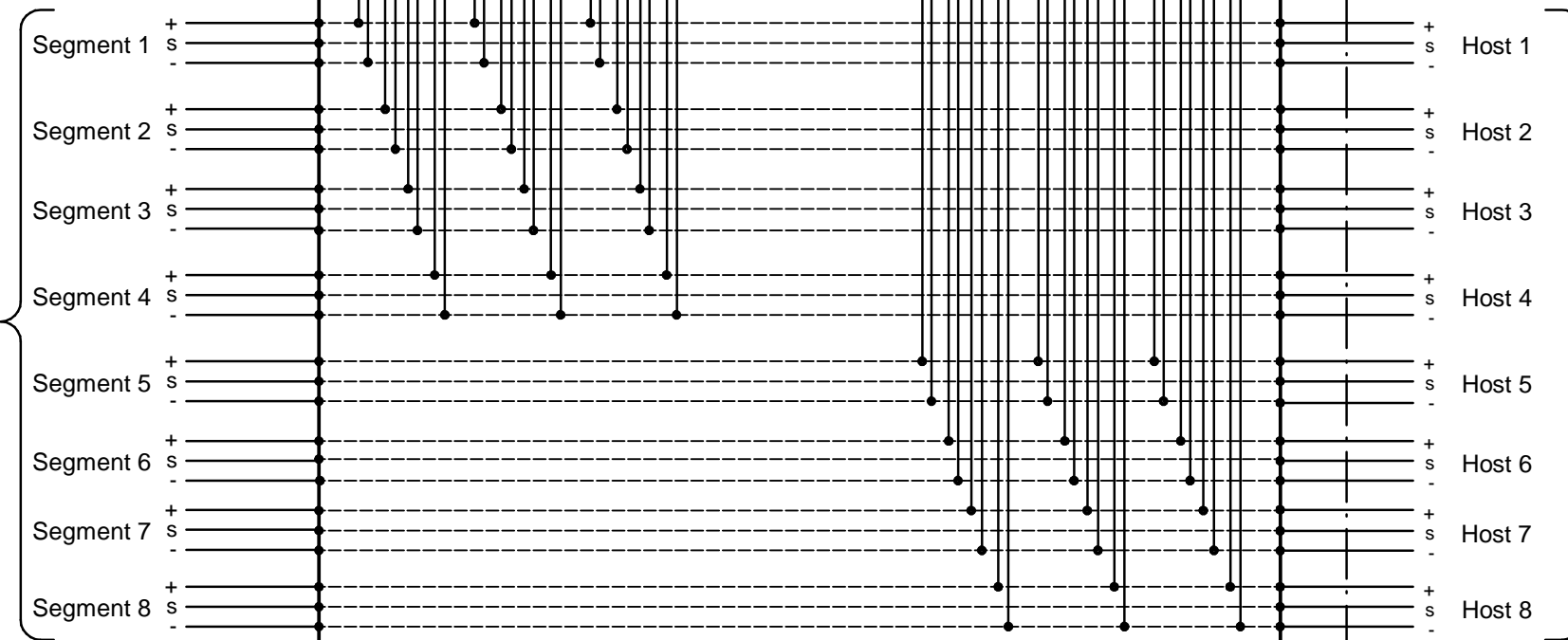
**9181, 9188 or 9189 carrier**



**9191-FP Fieldbus Power Supplies:**  
 Max Output Voltage = 32Vdc  
 Max Current Output = 250mA

Suitably certified 24Vdc Power Supply A (30Vdc max)

Suitably certified 24Vdc Power Supply B (30Vdc max)



**Fieldbus Segments**  
 Connected to suitably certified equipment

**Fieldbus Segments**  
 The source equipment must not use or be connected to =>253Vrms

To Alarm Input  
 + Diagnostic Segment  
 - Diagnostic Segment  
 + Diagnostic Segment  
 - Diagnostic Segment

The source equipment must not use or be connected to =>253Vrms

1. Installation should be in accordance with ANSI/ISA RP 12.06.01 "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National Electrical Code ANSI/NFPA70, or Canadian Electrical Code (CSA C22.1 or C22.2), as applicable.

2. If the 24Vdc power supplies are suitably certified they may be installed in the hazardous area. Not to be connected to sources =>253Vrms.

3. Diagram shows 9191-FP Fieldbus Power Supply modules fitted in positions A, B & C. This configuration provides 500mA per fieldbus segment with redundant power supply modules available in the event of a failure of one of the active modules. There are various combinations as detailed :

- A only fitted 250mA per segment with no redundancy
- A & B fitted 500mA per segment with no redundancy
- A & B fitted 250mA per segment with 1 redundant power supply module
- A, B & C fitted 500mA per segment with 1 redundant power supply module

4. A 9197-BLK Blanking Module may be fitted in unused positions in order to maintain continuity of the alarm circuit.

5. Optional F809F or F809F-Plus Fieldbus Diagnostics Module may be fitted in order to provide diagnostic capability.

6. The 9191-FP Fieldbus Power Supply module is separately certified :

AEx nA nC IIC Gc  
 Max Output Voltage = 32Vdc  
 Max Output Current = 250mA  
 Class I, Div 2, ABCD T4  
 Class I, Zone 2, IIC T4

7. When mounted in a Div 2 or Zone 2 environment, 9181, 9188 or 9189 carriers (with F809F, 9191-FP and/or 9197-BLK fitted) must be installed in a suitably certified enclosure of IP54 rating or better.

1	2.13		Scale N/A	Copyright Reserved Written Permission To Copy Should Be Obtained	Measurement Technology Ltd, Luton, England		Title INSTALLATION DRAWING FOR THE MTL9180 SERIES FIELDBUS SUPPLIES		Drg. No SCI-1072	Iss. 1
Iss	Date	Modification	Tolerance N/A							