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A9000Px Power/Signal Adapter Installation Drawing for Emerson Transmitters

REV	ECO NO.	DATE
0	Initial Release	16-Oct-2017
1	E17246	13-DEC-2017

Entity Parameters								
Connection	Power In		Power Out		Sensor Out*		Sensor In	
Terminals	Power and Ground		Bottom Plug		S1+ & S1- / S2+ & S2-		SIG1 / SIG2 & COM	
Marking	Ex ia IIC T4 Ga	Ex ia IIB T4 Ga Ex ic IIC T4 Gc	Ex ia IIC T4 Ga	Ex ia IIB T4 Ga Ex ic IIC T4 Gc	Ex ia IIC T4 Ga	Ex ia IIB T4 Ga Ex ic IIC T4 Gc	Ex ia IIC T4 Ga	Ex ia IIB T4 Ga Ex ic IIC T4 Gc
Parameters	Ui = 28 V	Ui = 28 V	Uo = 7.65 V	Uo = 7.65 V	Uo = 25.2 V	Uo = 25.2 V	Uo = 7.424 V	Uo = 7.424 V
	Ii = 120 mA	Ii = 170 mA	Io = 106 mA	Io = 106 mA	Io = 127 mA	Io = 127 mA	Io = 29.4 mA	Io = 29.4 mA
	Pi = 0.84 W	Pi = 1.19 W	Po = 813 mW	Po = 813 mW	Po = 0.8 W	Po = 0.8 W	Po = 55 mW	Po = 55 mW
	Ci = 0 nF	Ci = 0 nF	Co = 9.8 µF	Co = 85 µF	Co = 75 nF	Co = 358 nF	Co = 11.1 µF	Co = 100 µF
	Li = 80 µH	Li = 80 µH	Lo = 3.2 mH	Lo = 7.1 mH	Lo = 2.2 mH	Lo = 5 mH	Lo = 41.1 mH	Lo = 92.5 mH

* Entity parameters for sensor out terminals S1+ / S1- & S2+ / S2- reflect total combined limitations for both channels.

Note: An appropriate I.S. Barrier shall be used to power the Emerson Transmitter.

Conditions of Safe Use

- A9000Px shall be installed inside of an enclosure with a minimum IP rating of IP64.
- Field wiring using multiconductor cable shall either have each conductor enclosed in grounded metal shield or each conductor have a minimum of 0.25mm (0.01") insulation thickness.
- If an earth connection is made inside the transmitter housing, it should be made through the same enclosure entry as the external sensors.

Model A9000PA:

CSA-c/us 17CA70101643

Class I, Div. 1, Groups A, B, C & D, T4;
Class II, Div. 1, Groups E, F & G;
Class I, Zone 0, A/Ex ia IIC T4 Ga

SIRA/ATEX 17ATEX2323X

CE 0518 Ex II 1 G Ex ia IIC T4 Ga

IECEx CSA 17.0038X

Ex ia IIC T4 Ga

Model A9000PS:

CSA-c/us 17CA70101643

Class I, Div. 1, Groups C & D, T4;
Class I, Div. 2, Groups A, B, C & D T4;
Class I, Zone 0, A/Ex ia IIB T4 Ga;
Class I, Zone 2, A/Ex ic IIC T4 Gc

SIRA/ATEX 17ATEX2323X

CE 0518 Ex II 1 G Ex ia IIB T4 Ga

SIRA/ATEX 17ATEX4375X

CE Ex II 3 G Ex ic IIC T4 Gc

IECEx CSA 17.0038X

Ex ia IIB T4 Ga
Ex ic IIC T4 Gc
Ta: -40°C to +85°C

Emerson
835 Innovation Drive
Knoxville, TN 37932
USA

**Agency approved drawing. No changes
without prior agency approval.**

MATERIAL:		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		For Reference Only		EMERSON. Knoxville, TN.	
FINISH:		TOLERANCES		DESIGNED BY:	DATE	TITLE	
		DECIMALS: .X ± .030 .XX ± .020 .XXX ± .010		J. Clemons	30-AUG-2017	A9000Px Installation Drawing	
		FRACTIONS: ± 1/32		DRAWN BY:	DATE	SCALE	
		ANGULAR: ± 0°-30'		J. Clemons	30-AUG-2017	1 of 5	
		FINISH: 32		LAST REVISED BY:	DATE	C/O FILENAME	
		DO NOT SCALE THIS DRAWING		J. Clemons	13-DEC-2017	D25790.dwg	
				RESP. ENGINEER	DATE	DRAWING NO./PART NO.	
				J. Baldwin	30-Aug-2017	D25790	
				MANUFACTURING ENG.	DATE	FIRST USED MODEL NO.	
						A9000X	
				DOCUMENT CONTROL	DATE		

A9000Px Power/Signal Adapter for Accel Input to the AMS 9420 Low Power Accel (25 mV/g)

1 Sensor

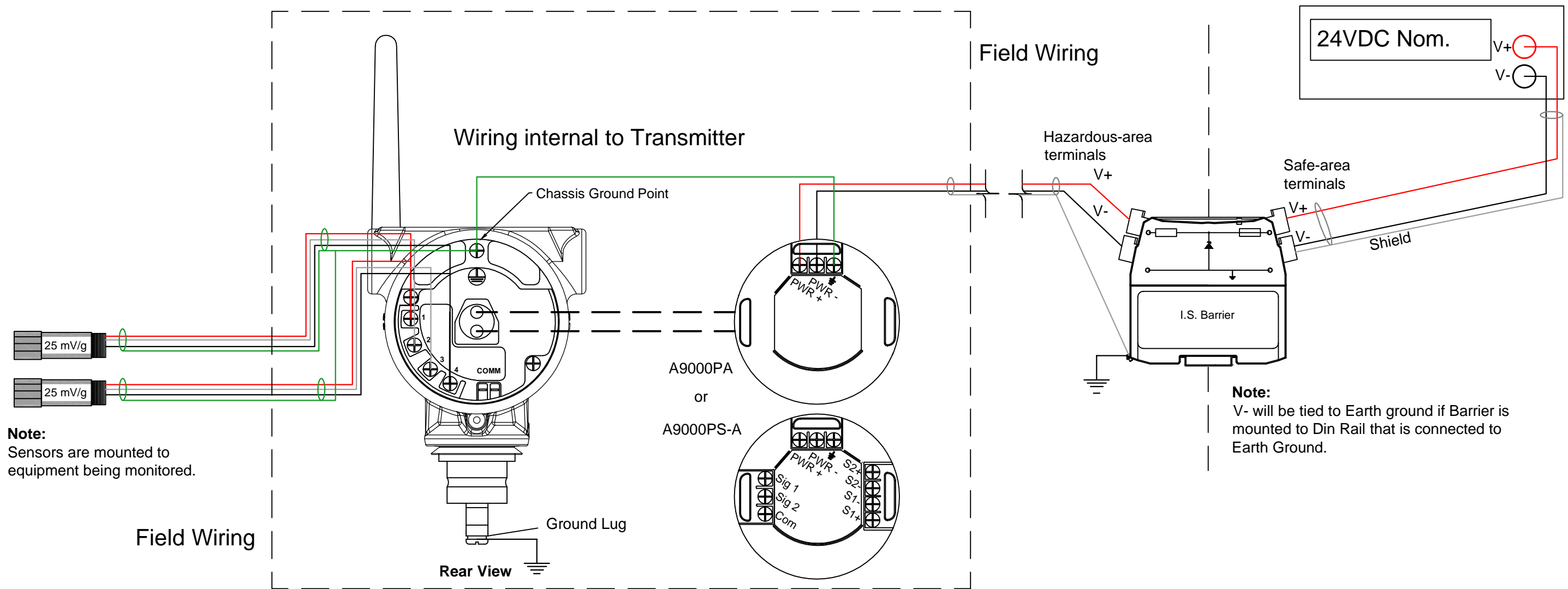
Sensor Connections 2 Sensors

1 Sensor with Temperature

Terminal 1 = Both Red Wires
Terminal 2 = 1 White Wire
Terminal 3 = 1 White Wire
Terminal 4 = Both Black Wires
Chassis Ground Point = Both Cable Shields

Terminal 1 = Red Wire
Terminal 2 = 1 White Wire
Terminal 3 = 1 White Wire
Terminal 4 = Both Black Wires
Chassis Ground Point = Both Cable Shields

Terminal 1 = Red Wire
Terminal 2 = White Wire
Terminal 3 = Green Wire
Terminal 4 = Black Wire
Chassis Ground Point = Cable Shield



Note:
Sensors are mounted to equipment being monitored.

A9000PS-A Power/Signal Adapter for Accel Input to the AMS 9420 Powered ICP Accel (100 mV/g)

Sensor Connections

1 Sensor

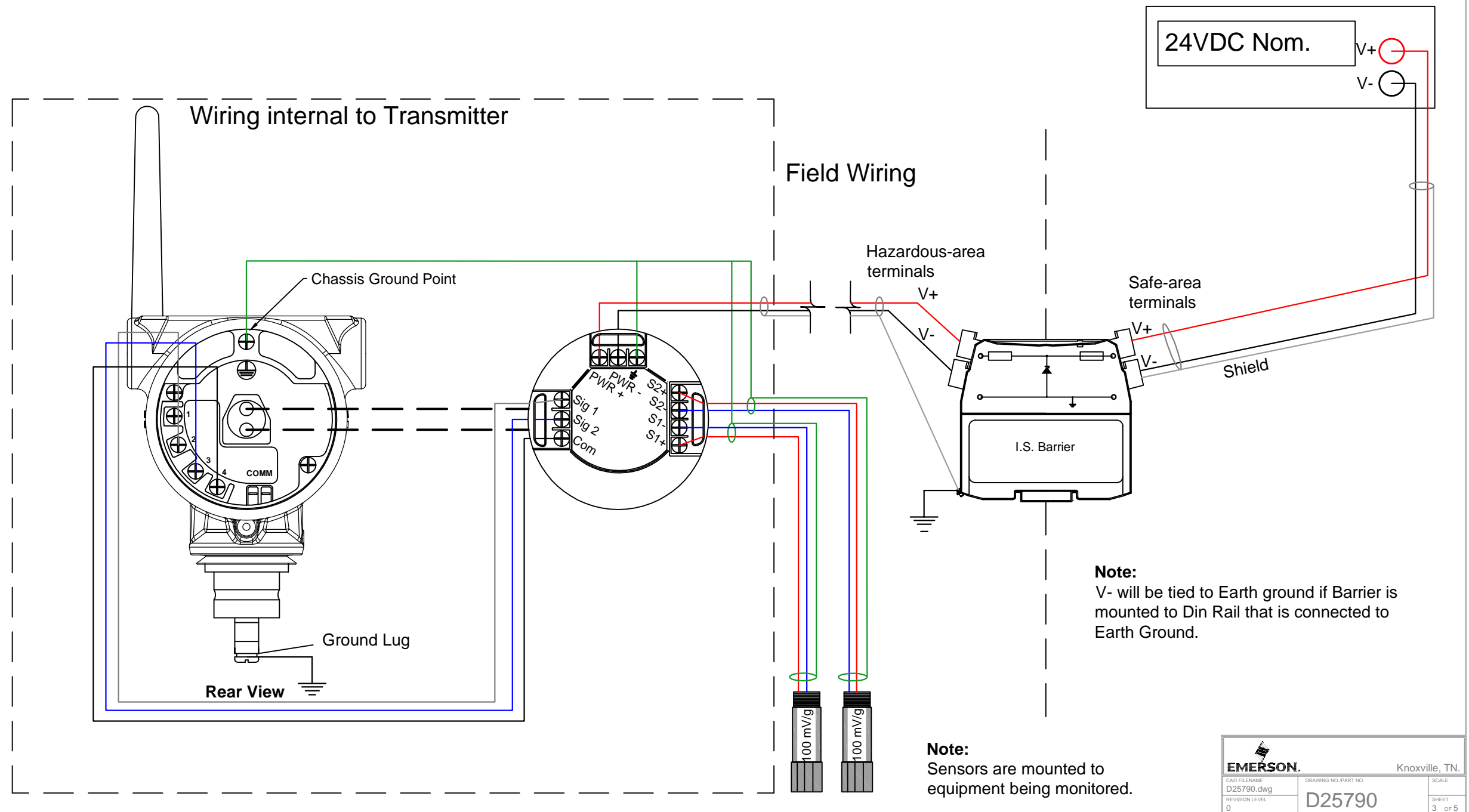
S1+ = Red Wire (Power)
S1 - = Blue Wire (Signal)
Shield = Green Wire (Chassis Ground)

2 Sensors

S2 + = Red Wire (Power)
S2 - = Blue Wire (Signal)
Shield = Green Wire (Chassis Ground)

From A9000Px to AMS 9420

Sig 1 to Term Block Terminal 2 = Gray Wire
Sig 2 to Term Block Terminal 3 = Blue Wire
Com to Term Block Terminal 4 = Black Wire



A9000PS-V Power/Signal Adapter for Volts Input External Device with equivalent Entity Parameters

Sensor Connections

1 Sensor

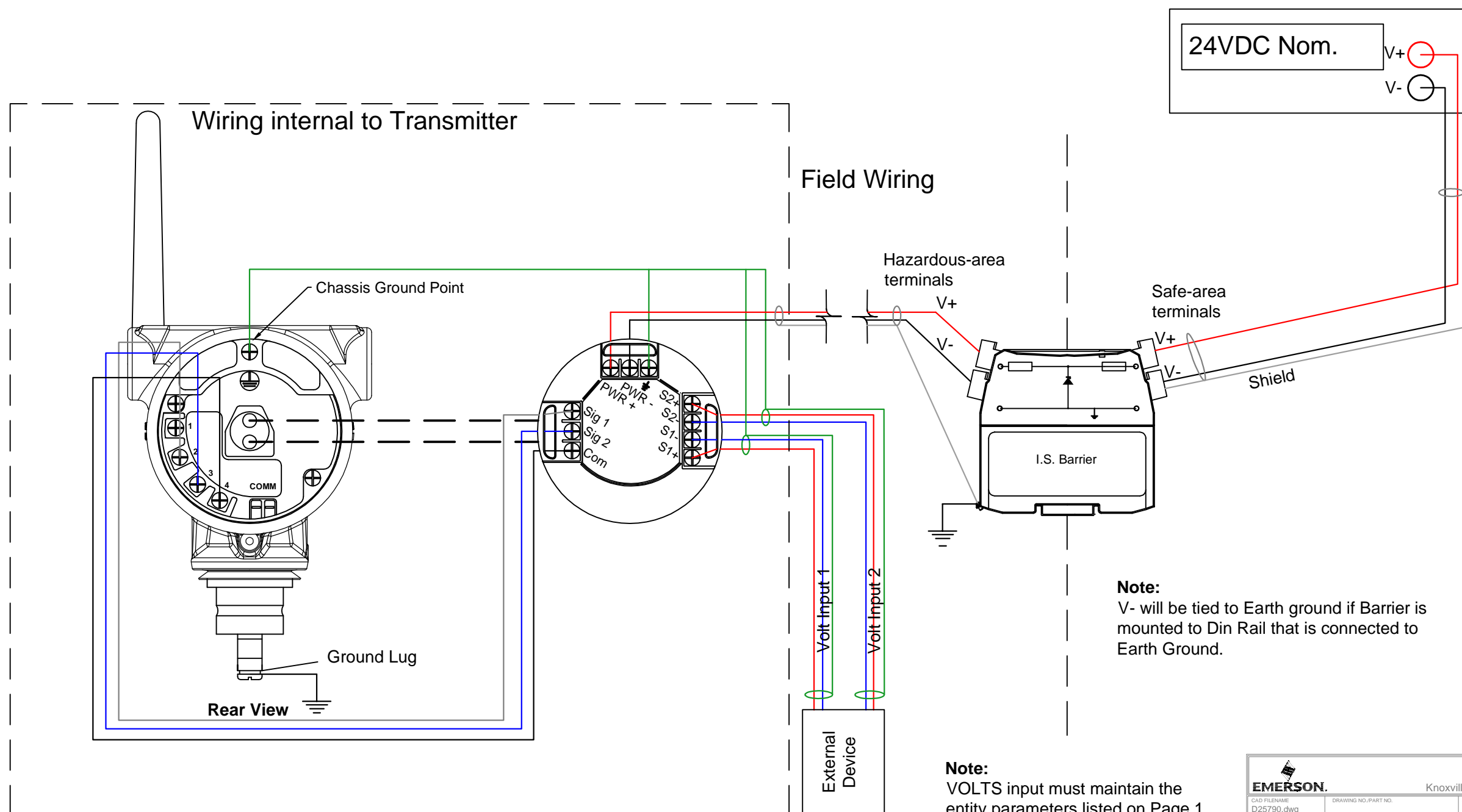
S1+ = Red Wire (Power)
S1 - = Blue Wire (Signal)
Shield = Green Wire (Chassis Ground)

2 Sensors

S2 + = Red Wire (Power)
S2 - = Blue Wire (Signal)
Shield = Green Wire (Chassis Ground)

From A9000 to AMS 9420

Sig 1 to Term Block Terminal 2 = Gray Wire
Sig 2 to Term Block Terminal 3 = Blue Wire
Com to Term Block Terminal 4 = Black Wire



Note:
VOLTS input must maintain the entity parameters listed on Page 1.

A9000Px Power Adapter for Emerson Transmitters

Sensor Connections
Sensors are internal to the transmitter

