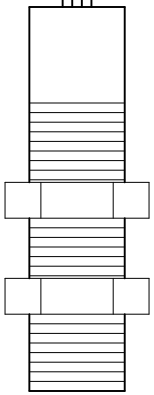
Wiring for Intrinsically Safe Applications

Hazardous Area



RPS-409A-IS
Ultrasonic Sensor

Sensor Entity Parameters					
Circuit	Wire Color	Vmax	Imax	Ci	Li
Power	Brown Blue	30V	100mA	0.0uF	0.28mH
Analog Output	White	16V	16mA	0.0uF	0.0mH
Sync/Enable	Black	16V	16mA	0.0uF	0.0mH

Notes:

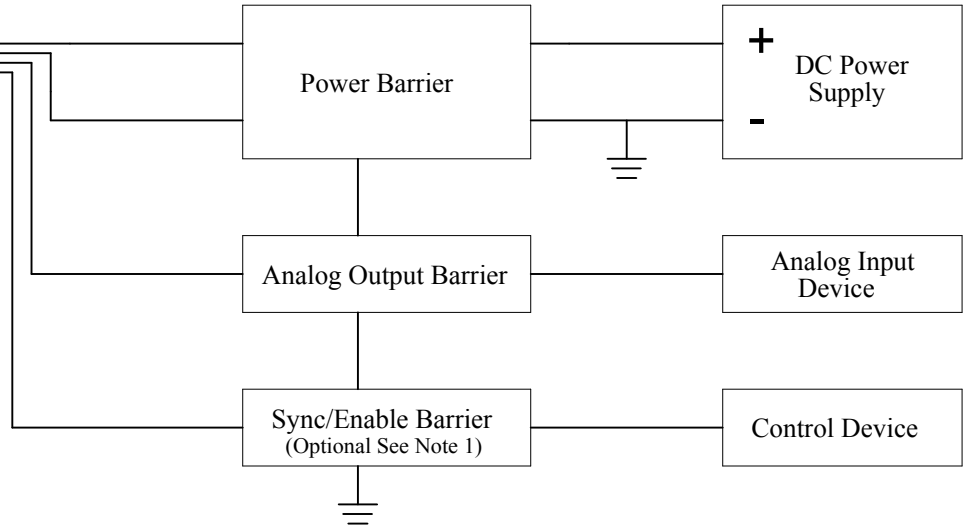
1. UL listed Intrinsically Safe for use in Hazardous (Classified) Locations when used with approved Intrinsically Safe Barriers.

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

2. Maximum Ambient Temperature 60 C.

3. The installation must be in accordance with the National Electric Code, NFPA70, Article 504, and ANSI/ISA/RP12.06.01.

Non-Hazardous Area



Barrier Entity Parameters				
Circuit	Voc ≤	Isc ≤	Ca ≥	La ≥
Power	30V	100mA	Ci + Ccable	Li + Lcable
Analog Output	16V	16mA	Ci + Ccable	Li + Lcable
Sync/Enable	16V	16mA	Ci + Ccable	Li + Lcable

Notes:

1. The Sync/Enable line is not required for operation of the sensor.
   If not used the Sync/Enable line may be left open, or tied to ground.

2. Selected barriers must be installed in accordance with the barrier manufacturers' control drawing.

3. If cable capacitance and inductance are unknown the following values may be used;
   Ccable = 60pF/foot
   Lcable = 0.2uH/foot

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Title: RPS-409A-IS Control Drawing		
Size: A	Drawing No.: 02260209	Rev.: A
Date: February 26, 2002		Page 1 of 1