

**INTRINSIC SAFETY BARRIERS SUITABLE FOR USE WITH DELTA CONTROLS
MODEL 872**

Delta Controls pressure transmitters are intrinsically safe when used with suitable safety barriers. Barriers are suitable if the entity parameters are selected so that:

$$13v < V_{max} < 35v \quad 20mA < I_{max} < 200mA \quad C_a \leq 7.05\mu F + C_{cable} \quad L_a \leq 7 L_{cable} + 220\mu H$$

In addition, the internal resistance must be selected so that at 20mA, the voltage dropped across the load resistance plus the internal resistance must be less than (Vsupply-13v)

The following are some of the safety barriers that are suitable for use with Delta Controls Model 872

MANUFACTURER: STAHL				
PART NUMBER	RATED VOLTAGE	INTERNAL RESISTANCE	ALLOWABLE LOAD RESISTANCE AT RATED VOLTAGE	I.S. CONNECTION FOR CL I,II,III, GROUPS:
9001/01-199-150-10	16	160	10	A-G
9001/01-280-075-10	24	440	110	A-G
9001/01-280-085-10	24	356	194	A-G
9001/01-280-100-10	24	302	248	A-G
9001/01-280-110-10	24	277	273	A-G
9001/01-199-165-10	24	187	363	C-G

MANUFACTURER: CROUSE-HINDS				
PART NUMBER	RATED VOLTAGE	INTERNAL RESISTANCE	ALLOWABLE LOAD RESISTANCE AT RATED VOLTAGE	I.S. CONNECTION FOR CL I,II,III, GROUPS:
SB19130 M 1801	18	230	20	A-G
SB19130 M 2401	24	440	110	A-G
SB19130 M 2402	24	535	15	A-G

MANUFACTURER: ADALET				
PART NUMBER	RATED VOLTAGE	INTERNAL RESISTANCE	ALLOWABLE LOAD RESISTANCE AT RATED VOLTAGE	I.S. CONNECTION FOR CL I,II,III, GROUPS:
Z 125/Ex	22	202	133	A-G
Z 129/Ex	28	367	258	A-G
Z 123/Ex-CL	20	178+2V	72	A-G

Bold selections are the most commonly specified.