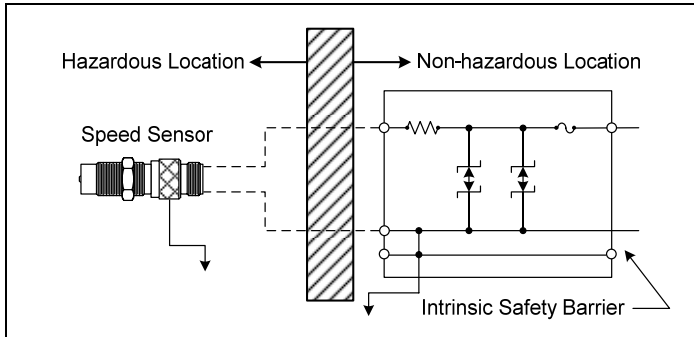


CONTROL DRAWING FOR SINGLE CHANNEL BARRIERS



HAZARDOUS LOCATIONS

Class I, Groups A, B, C, D
 Class II, Groups E, F, G
 Class III: Catalog listing 3042H20

Class I, Groups A, B, C and D: Catalog listing 3042A

ENTITY PARAMETERS

$V_{max} = 24\text{ V}$, $I_{max} = 35\text{ mA}$, $L_i = 26\text{ mH}$, $C_i = 0\text{ }\mu\text{F}$
 Any barrier (see General Notes) with entity parameters connected in accordance with barrier manufacturers instructions of:

$V_{max} \geq V_{oc}$ $C_a \geq C_i + \text{cable capacitance}$
 $I_{max} \geq I_{sc}$ $L_a \geq L_i + \text{cable inductance}$

SYSTEM PARAMETERS

Any barrier (see General Notes) having one of the following specified parameters:

V_{max}	R_{min}	V_{max}	R_{min}	V_{max}	R_{min}
30	707	20	421	10	136

GENERAL NOTES

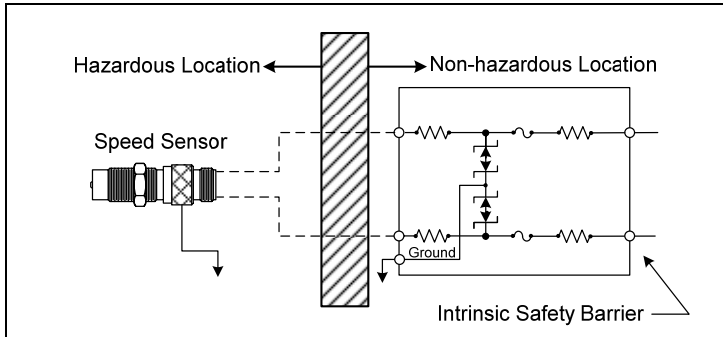
- For jurisdictions requiring certification to the applicable Canadian standards, the barrier must be CSA Certified and the system must be installed in accordance with the Canadian Electrical Code Part 1.
- For jurisdictions requiring certification to the applicable Occupational Safety and Health Administration (OSHA) standards, the barrier must be CSA NRTL or equivalent and the system must be installed in accordance with the National Electrical Code (NEC), article 504 or ANSI/NFPA 70.

SENSOR GROUNDING

Catalog listing 3042A: Sensor housing must be connected to intrinsically safe system ground during installation.
 Catalog listing 3042H20: Green wire must be connected to intrinsically safe system ground.

Exia = Intrinsically Safe, Securite Intrinseque

CONTROL DRAWING FOR DUAL CHANNEL BARRIERS



HAZARDOUS LOCATIONS

Class I, Groups A, B, C, D
 Class II, Groups E, F, G
 Class III: Catalog listing 3042H20

Class I, Groups A, B, C and D: Catalog listing 3042A

ENTITY PARAMETERS

$V_{max} = 24\text{ V}$, $I_{max} = 35\text{ mA}$, $L_i = 26\text{ mH}$, $C_i = 0\text{ }\mu\text{F}$
 Any barrier (see General Notes) with entity parameters connected in accordance with barrier manufacturers instructions of:

$V_{max} \geq V_{oc}$ $C_a \geq C_i + \text{cable capacitance}$
 $I_{max} \geq I_{sc}$ $L_a \geq L_i + \text{cable inductance}$

SYSTEM PARAMETERS

Any barrier (see General Notes) having one of the following specified parameters:

V_{max}	R_{min}	V_{max}	R_{min}	V_{max}	R_{min}
30	1414	20	842	10	272
25	1160	15	556	5	2

GENERAL NOTES

- For jurisdictions requiring certification to the applicable Canadian standards, the barrier must be CSA Certified and the system must be installed in accordance with the Canadian Electrical Code Part 1.
- For jurisdictions requiring Certification to the applicable Occupational Safety and Health Administration (OSHA) standards, the barrier must be CSA NRTL or equivalent and the system must be installed in accordance with the National Electrical Code (NEC), article 504 or ANSI/NFPA 70.

SENSOR GROUNDING

Catalog listing 3042A: Sensor housing must be connected to intrinsically safe system ground during installation.
 Catalog listing 3042H20: Green wire must be connected to intrinsically safe system ground.

Exia = Intrinsically Safe, Securite Intrinseque