

## Intrinsic Safety Barriers



### STANDARD FEATURES

- Each system features excitation, sense and signal barriers
- Available in an enclosure for external mounting or in a chassis mount version
- R Stahl® or equivalent barriers that are approved by Factory Mutual
- 9002 Dual Channel

### SPECIFICATIONS

**PART #31201:**  
+ Excitation 9001/01-158-390-101  
**VOLTAGE RANGE:**  
+12VDC  
**INTERNAL RESISTANCE:**  
55Ω  
**OPEN CIRCUIT VOLTAGE:**  
15.7VDC  
**SHORT CIRCUIT CURRENT:**  
390mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA certified, SA, CE marked

**PART #31202:**  
± Excitation 9002/10-187-270-001  
**VOLTAGE RANGE:**  
±6VDC  
**INTERNAL RESISTANCE:**  
46Ω  
**OPEN CIRCUIT VOLTAGE:**  
18.7VDC  
**SHORT CIRCUIT CURRENT:**  
278.8mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA- certified, SA, CE marked

**PART #31540:**  
+ Excitation 9001/01-083-442-10  
**VOLTAGE RANGE:**  
+6VDC  
**INTERNAL RESISTANCE:**  
48Ω  
**OPEN CIRCUIT VOLTAGE:**  
8.4VDC  
**SHORT CIRCUIT CURRENT:**  
442mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA- certified, SA, CE marked

**PART #30263:**  
± Signal 9002/77-093-040-001  
**VOLTAGE RANGE:**  
±6VDC  
**INTERNAL RESISTANCE:**  
482Ω  
**OPEN CIRCUIT VOLTAGE:**  
9.6VDC  
**SHORT CIRCUIT CURRENT:**  
40.9mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA-certified, SA, CE marked

**PART #31542:**  
RS-232 9002/22-093-300-001  
**VOLTAGE RANGE:**  
±6VDC  
**INTERNAL RESISTANCE:**  
75.8Ω  
**OPEN CIRCUIT VOLTAGE:**  
9.6VDC  
**SHORT CIRCUIT CURRENT:**  
297.5mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA- certified, SA, CE marked

**PART #30264:**  
± Sense 9002/10-187-020-001  
**VOLTAGE RANGE:**  
±6VDC  
**INTERNAL RESISTANCE:**  
482Ω  
**OPEN CIRCUIT VOLTAGE:**  
18.7VDC  
**SHORT CIRCUIT CURRENT:**  
22mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA- certified, SA, CE marked

**PART #69491:**  
- Excitation 9001/02-016-150-111  
**VOLTAGE RANGE:**  
±0.7VDC  
**INTERNAL RESISTANCE:**  
12.8Ω  
**OPEN CIRCUIT VOLTAGE:**  
1.64VDC  
**SHORT CIRCUIT CURRENT:**  
127.4mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA- certified, SA, CE marked

**PART #69492:**  
+ Sense 9001/01-168-020-101  
**VOLTAGE RANGE:**  
±12VDC  
**INTERNAL RESISTANCE:**  
898Ω  
**OPEN CIRCUIT VOLTAGE:**  
16.8VDC  
**SHORT CIRCUIT CURRENT:**  
18.7mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA- certified, SA, CE marked

**PART #69493:**  
- Sense 9001/02-016-015-101  
**VOLTAGE RANGE:**  
+0.7VDC  
**INTERNAL RESISTANCE:**  
127Ω  
**OPEN CIRCUIT VOLTAGE:**  
1.64VDC  
**SHORT CIRCUIT CURRENT:**  
13.7mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA certified, SA, CE marked

**PART #70723:**  
- Excitation 9001/00-083-442-101  
**VOLTAGE RANGE:**  
-6VDC  
**INTERNAL RESISTANCE:**  
26Ω  
**OPEN CIRCUIT VOLTAGE:**  
-8.4VDC  
**SHORT CIRCUIT CURRENT:**  
442mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA certified, SA, CE marked

**PART #70724:**  
+ Sense 9001/01-086-020-101  
**VOLTAGE RANGE:**  
+6VDC  
**INTERNAL RESISTANCE:**  
470Ω  
**OPEN CIRCUIT VOLTAGE:**  
8.6VDC  
**SHORT CIRCUIT CURRENT:**  
18.3mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA certified, SA, CE marked

**PART #72396:**  
- Sense 9001/00-086-020-101  
**VOLTAGE RANGE:**  
+6VDC  
**INTERNAL RESISTANCE:**  
480Ω  
**OPEN CIRCUIT VOLTAGE:**  
8.6VDC  
**SHORT CIRCUIT CURRENT:**  
18.3mA  
**CLASSIFICATIONS:**  
FM approved, UL listed,  
CSA-certified, SA, CE marked

**PART #30266:**  
+ Excitation 9001/00-086-390-101  
**VOLTAGE RANGE:**  
+0.6VDC  
**INTERNAL RESISTANCE:**  
30Ω  
**OPEN CIRCUIT VOLTAGE:**  
8.6VDC  
**SHORT CIRCUIT CURRENT:**  
377.6mA  
**CLASSIFICATIONS:**  
FM approved

**PART #72521:**  
- Excitation 9001/01-199-390-101  
**VOLTAGE RANGE:**  
+16VDC  
**INTERNAL RESISTANCE:**  
67Ω  
**OPEN CIRCUIT VOLTAGE:**  
-19.9VDC  
**SHORT CIRCUIT CURRENT:**  
382.7mA  
**CLASSIFICATIONS:**  
FM approved, CSA-certified,  
CE marked

**PART #30265:**  
+ Excitation 9001/01-086-390-101  
**VOLTAGE RANGE:**  
+6VDC  
**INTERNAL RESISTANCE:**  
30Ω  
**OPEN CIRCUIT VOLTAGE:**  
8.6VDC  
**SHORT CIRCUIT CURRENT:**  
377.6mA  
**CLASSIFICATIONS:**  
FM approved

## Intrinsic Safety Barriers

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
<b>Barrier Kit #1</b>			
General purpose (UL applications - STAHL control drawing 9000-6UL). RL20000B, RL20001-T10, RL30000, RL35023-N5, RL90000, RL35023S, RL1521, RL35023, RL70000C, RL75016, RL75040, RL75058B, RL75223B, RL75016SS load cells.			
For use with indicators that have ±5 Volt power supplies			
31202	9002/10-187-270-001, ± Excitation barrier	1 lb	Consult
30264	9002/10-187-020-001, ± Sense barrier	1 lb	Consult
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult
<b>Barrier Kit #2:</b>			
<b>RL1010, RL1040, RL1140, RL1250 and RLETO load cells.</b>			
For use with indicators that have ±5 Volt power supplies			
31540	9001/01-083-442-101, + Excitation barrier	1 lb	Consult
70723	9001/00-083-442-101, - Excitation barrier	1 lb	Consult
70724	9001/01-086-020-101, + Sense barrier	1 lb	Consult
72396	9001/00-086-020-101, - Sense barrier	1 lb	Consult
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult
<b>Barrier Kit #3:</b>			
<b>RL20000B, RL20001-T10, RL30000, RL35023-N5, RL90000, RL35023S, RL1521, RL35023, RL70000C, RL75016, RL75040, RL75058B, RL75223B, RL90000, RL75016SS, RL1010, RL1040, RL1140, RL1250 and RLETO load cells.</b>			
For use with indicators that have 10 Volt power supplies			
31201	9001/01-158-390-101, + Excitation barrier	1 lb	Consult
69491	9001/02-016-150-111, - Excitation barrier	1 lb	Consult
69492	9001/01-168-020-101, + Sense barrier	1 lb	Consult
69493	9001/002-016-015-101, - Sense barrier	1 lb	Consult
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult
<b>Barrier Kit #4:</b>			
<b>RL20000A, RL20001HE, RL30000A, RL30001A, RL30002A, RL39123, RL35082, RL35083, RL50210, RL35023S, RLETB, RLETS, RLSSB, RLHSS, RL5250, RL70000B, RL70000SS, RL75223, RL8C2P1, RL39523, RLHTC, RL20000SS, RL8C2P1, RL30000B load cells.</b>			
For use with indicators that have 10 Volt power supplies			
31201	9001/01-158-390-10, + Excitation barrier	1 lb	Consult
69491	9001/02-016-150-11, - Excitation barrier	1 lb	Consult
69492	9001/01-168-020-00, + Sense barrier	1 lb	Consult
69493	9001/002-016-015-10, - Sense barrier	1 lb	Consult
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult
31542	9002/77-093-300-001, RS-232	1 lb	Consult
30266	9001/00-086-390-101, - Excitation barrier		Consult
30265	9001/01-086-390-101, + Excitation barrier		Consult
72521	9001-01-199-390-101, + Excitation barrier		Consult
<b>OPTIONS &amp; ACCESSORIES:</b>			
33531	DIN rail, 6in length		Consult
35815	IS barrier installation manual		Consult
110424	FRP enclosure, up to 4 barriers (not included)		Consult

Intrinsically Safe