

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:
55 Ω

OPEN CIRCUIT VOLTAGE:
15.7VDC

SHORT CIRCUIT CURRENT:
390mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #31542:

RS-232 9002/22-093-300-001

VOLTAGE RANGE:
 ± 6 VDC

INTERNAL RESISTANCE:
75.8 Ω

OPEN CIRCUIT VOLTAGE:
9.6VDC

SHORT CIRCUIT CURRENT:
297.5mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #69493:

- Sense 9001/02-016-015-101

VOLTAGE RANGE:
+0.7VDC

INTERNAL RESISTANCE:
127 Ω

OPEN CIRCUIT VOLTAGE:
1.64VDC

SHORT CIRCUIT CURRENT:
13.7mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #3066:

+ Excitation 9001/00-086-390-101

VOLTAGE RANGE:
+0.6VDC

INTERNAL RESISTANCE:
30 Ω

OPEN CIRCUIT VOLTAGE:
8.6VDC

SHORT CIRCUIT CURRENT:
377.6mA

CLASSIFICATIONS:
FM approved

PART #31202:

\pm Excitation 9002/10-187-270-001

VOLTAGE RANGE:
 ± 6 VDC

INTERNAL RESISTANCE:
46 Ω

OPEN CIRCUIT VOLTAGE:
18.7VDC

SHORT CIRCUIT CURRENT:
278.8mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #30264:

\pm Sense 9002/10-187-020-001

VOLTAGE RANGE:
 ± 6 VDC

INTERNAL RESISTANCE:
482 Ω

OPEN CIRCUIT VOLTAGE:
18.7VDC

SHORT CIRCUIT CURRENT:
22mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #70723:

- Excitation 9001/00-083-442-101

VOLTAGE RANGE:
-6VDC

INTERNAL RESISTANCE:
26 Ω

OPEN CIRCUIT VOLTAGE:
-8.4VDC

SHORT CIRCUIT CURRENT:
442mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #72521:

- Excitation 9001/01-199-390-101

VOLTAGE RANGE:
+16VDC

INTERNAL RESISTANCE:
67 Ω

OPEN CIRCUIT VOLTAGE:
-19.9VDC

SHORT CIRCUIT CURRENT:
382.7mA

CLASSIFICATIONS:
FM approved, CSA-certified,
CE marked

PART #31540:

+ Excitation 9001/01-083-442-101

VOLTAGE RANGE:
+6VDC

INTERNAL RESISTANCE:
48 Ω

OPEN CIRCUIT VOLTAGE:
8.4VDC

SHORT CIRCUIT CURRENT:
442mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #69491:

- Excitation 9001/02-016-150-111

VOLTAGE RANGE:
 ± 0.7 VDC

INTERNAL RESISTANCE:
12.8 Ω

OPEN CIRCUIT VOLTAGE:
1.64VDC

SHORT CIRCUIT CURRENT:
127.4mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #70724:

+ Sense 9001/01-086-020-101

VOLTAGE RANGE:
+6VDC

INTERNAL RESISTANCE:
470 Ω

OPEN CIRCUIT VOLTAGE:
8.6VDC

SHORT CIRCUIT CURRENT:
18.3mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #30265:

+ excitation 9001/01-086-390-101

VOLTAGE RANGE:
+6VDC

INTERNAL RESISTANCE:
30 Ω

OPEN CIRCUIT VOLTAGE:
8.6VDC

SHORT CIRCUIT CURRENT:
377.6mA

CLASSIFICATIONS:
FM approved

PART #30263:

\pm Signal 9002/77-093-040-001

VOLTAGE RANGE:
 ± 6 VDC

INTERNAL RESISTANCE:
482 Ω

OPEN CIRCUIT VOLTAGE:
9.6VDC

SHORT CIRCUIT CURRENT:
40.9mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA-certified, SA, CE marked

PART #69492:

+ Sense 9001/01-168-020-101

VOLTAGE RANGE:
 ± 12 VDC

INTERNAL RESISTANCE:
898 Ω

OPEN CIRCUIT VOLTAGE:
16.8VDC

SHORT CIRCUIT CURRENT:
18.7mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA certified, SA, CE marked

PART #72396:

- SENSE 9001/00-086-020-101

VOLTAGE RANGE:
+6VDC

INTERNAL RESISTANCE:
480 Ω

OPEN CIRCUIT VOLTAGE:
8.6VDC

SHORT CIRCUIT CURRENT:
18.3mA

CLASSIFICATIONS:
FM approved, UL listed,
CSA-certified, SA, CE marked

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
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Barrier Kit #1

General purpose (UL applications - STAHL control drawing 9000-6UL). RL20000B, RL20001-T10, RL30000, RL35023-N5, RL90000, RL30000W, 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	
30264	9002/10-187-020-001, ± Sense barrier	1 lb	
30263	9002/77-093-040-001, ± Signal barrier	1 lb	

Barrier Kit #2:

RL1010, RL1040, RL1140, RL1250 and RLETO load cells.

For use with indicators that have ±5 Volt power supplies

31540.....	9001/01-083-442-101, + Excitation barrier.....	1 lb	
70723.....	9001/00-083-442-101, - Excitation barrier	1 lb	
70724.....	9001/01-086-020-101, + Sense barrier	1 lb	
72396.....	9001/00-086-020-101, - Sense barrier	1 lb	
30263	9002/77-093-040-001, ± Signal barrier	1 lb	

Barrier Kit #3:

RL20000B, RL20001-T10, RL30000, RL35023-N5, RL90000, RL30000W, RL35023S, RL1521, RL35023, RL70000C, RL75016, RL75040, RL75058B, RL75223B, RL90000, RL75016SS, RL1010, RL1040, RL1140, RL1250 and RLETO load cells.

For use with indicators that have 10 Volt power supplies

31201.....	9001/01-158-390-101, + Excitation barrier.....	1 lb	€
69491	9001/02-016-150-111, - Excitation barrier	1 lb	€
69492	9001/01-168-020-101, + Sense barrier	1 lb	€
69493	9001/002-016-015-101, - Sense barrier.....	1 lb	€
30263	9002/77-093-040-001, ± Signal barrier	1 lb	€

Barrier Kit #4:

RL20000A, RL20001HE, RL30000A, RL30001A, RL30002A, RL39123A, RL35082, RL35083, RL50210A, RL35023S, RLETB, RLETS, RLSSB, RLHSS, RL250, RL70000B, RL70000SS, RL75223, RL8C2P1, RL39523, RLHTC,RL20000SS, RL8C2P1, RL30000B load cells.

For use with indicators that have 10 Volt power supplies

31201	9001/01-158-390-10, + Excitation barrier.....	1 lb	
69491	9001/02-016-150-11, - Excitation barrier	1 lb	
69492	9001/01-168-020-00, + Sense barrier	1 lb	
69493	9001/002-016-015-10, - Sense barrier.....	1 lb	
30263	9002/77-093-040-001, ± Signal barrier	1 lb	
31542.....	9002/77-093-300-001, RS-232.....	1 lb	
30266.....	9001/00-086-390-101, - Excitation barrier		
30265.....	9001/01-086-390-101, -Excitation barrier		
72521.....	9001-01-199-390-101, + Excitation barrier		

OPTIONS & ACCESSORIES:

33531.....	DIN rail, 6 in length		
35815.....	IS barrier installation.....		
Consult.....	Enclosure for barriers		