

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 #3066:

+ 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

Intrinsically Safe

Intrinsic Safety Barriers

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Barrier Kit #1			
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 factory
30264	9002/10-187-020-001, ± Sense barrier	1 lb	Consult factory
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult factory
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	Consult factory
70723	9001/00-083-442-101, - Excitation barrier	1 lb	Consult factory
70724	9001/01-086-020-101, + Sense barrier	1 lb	Consult factory
72396	9001/00-086-020-101, - Sense barrier	1 lb	Consult factory
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult factory
Barrier Kit #3:			
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.			
For use with indicators that have 10 Volt power supplies			
31201	9001/01-158-390-101, + Excitation barrier	1 lb	Consult factory
69491	9001/02-016-150-111, - Excitation barrier	1 lb	Consult factory
69492	9001/01-168-020-101, + Sense barrier	1 lb	Consult factory
69493	9001/002-016-015-101, - Sense barrier	1 lb	Consult factory
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult factory
Barrier Kit #4:			
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.			
For use with indicators that have 10 Volt power supplies			
31201	9001/01-158-390-10, + Excitation barrier	1 lb	Consult factory
69491	9001/02-016-150-11, - Excitation barrier	1 lb	Consult factory
69492	9001/01-168-020-00, + Sense barrier	1 lb	Consult factory
69493	9001/002-016-015-10, - Sense barrier	1 lb	Consult factory
30263	9002/77-093-040-001, ± Signal barrier	1 lb	Consult factory
31542	9002/77-093-300-001, RS-232	1 lb	Consult factory
30266	9001/00-086-390-101, - Excitation barrier		Consult factory
30265	9001/01-086-390-101, -Excitation barrier		Consult factory
72521	9001-01-199-390-101, + Excitation barrier		Consult factory
OPTIONS & ACCESSORIES:			
33531	DIN rail, 6in length		Consult factory
35815	IS barrier installation manual		Consult factory
110424	FRP enclosure, up to 4 barriers (not included)		Consult factory