



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 (FM)

Specifications

Part #31201:

+ Excitation 9001/01-158-390-101

Voltage Range:

+12VDC

Internal Resistance:

55Ω

Open Circuit Voltage:

15.7 VDC

Short Circuit Current:

390 mA

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:

18.7 VDC

Short Circuit Current:

278.8 mA

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:

8.4 VDC

Short Circuit Current:

442 mA

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:

9.6 VDC

Short Circuit Current:

40.9 mA

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:

9.6 VDC

Short Circuit Current:

297.5 mA

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:

18.7 VDC

Short Circuit Current:

22 mA

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:

1.64 VDC

Short Circuit Current:

127.4 mA

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:

16.8 VDC

Short Circuit Current:

18.7 mA

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:

1.64 VDC

Short Circuit Current:

13.7 mA

Classifications:

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

Intrinsic Safety Barriers

Part #70723:

- Excitation 9001/00-083-442-101

Voltage Range:

-6VDC

Internal Resistance:26 Ω **Open Circuit Voltage:**

-8.4VDC

Short Circuit Current:

442 mA

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:

18.3 mA

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:

18.3 mA

Classifications:FM approved, UL listed,
CSA-certified, SA, CE marked**Part #30266:**

- Excitation 9001/00-086-390-101

Voltage Range:

-0.6VDC

Internal Resistance:30 Ω **Open Circuit Voltage:**

8.6VDC

Short Circuit Current:

377.6 mA

Classifications:

FM approved

Part #72521:

- Excitation 9001/01-199-390-101

Voltage Range:

+16VDC

Internal Resistance:67 Ω **Open Circuit Voltage:**

-19.9VDC

Short Circuit Current:

382.7 mA

Classifications:FM approved, CSA-certified,
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:

377.6 mA

Classifications:

FM approved

Part Number/Price

Part #	Description	Est. Weight	Price
Barrier Kit #1 (For models with $\pm$ 5 Volt excitation)			
31202	9002/10-187-270-001, $\pm$ Excitation barrier	1 lb	Consult
30264	9002/10-187-020-001, $\pm$ Sense barrier	1 lb	Consult
30263	9002/77-093-040-001, $\pm$ Signal barrier	1 lb	Consult
109663	DIN rail mounted kit #1 (includes 31202, 30264, 30263)	2 lb	Consult
Barrier Kit #2: (For models with + 10 Volt excitation)			
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, $\pm$ Signal barrier	1 lb	Consult
Barrier Kit #3: (For models with + 5 Volt excitation)			
31540	9001/01-083-442-101, + Excitation barrier	1 lb	Consult
69491	9001/02-016-150-111, - Excitation barrier	1 lb	Consult
30263	9002/77-093-040-001, $\pm$ Signal barrier	1 lb	Consult
If sense leads are needed, use the following:			
70724	9001/01-086-020-101, + Sense barrier	1 lb	Consult
69493	9001/002-016-015-101, - Sense barrier	1 lb	Consult
Miscellaneous Barriers:			
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, $\pm$ Signal barrier	1 lb	Consult
31542	9002/77-093-300-001, RS-232	1 lb	Consult
30266	9001/00-086-390-101, - Excitation barrier	1 lb	Consult
30265	9001/01-086-390-101, + Excitation barrier	1 lb	Consult
72521	9001-01-199-390-101, + Excitation barrier	1 lb	Consult

Options/Accessories:

Part #	Description	Price
33531	DIN rail, 6 in length	Consult
35815	IS barrier installation manual	Consult
110424	FRP enclosure, up to 4 barriers (not included)	Consult
22828	Ground terminal block	Consult
42219	Barrier fuse (160 mA)	Consult