

# Intrinsic Safety Barriers

**Part #69492:**

+ Sense 9001/01-168-020-101

**Voltage Range:**

±12 VDC

**Internal Resistance:**

898 Ω

**Open Circuit Voltage:**

16.8 VDC

**Short Circuit Current:**

18.7 mA

**Classifications:**FM approved, UL listed,  
CSA- certified, SA, CE marked**Part #72521:**

- Excitation 9001/01-199-390-101

**Voltage Range:**

+16 VDC

**Internal Resistance:**

67 Ω

**Open Circuit Voltage:**

-19.9 VDC

**Short Circuit Current:**

382.7 mA

**Classifications:**FM approved, CSA-certified,  
CE marked**Part #30265:**

+ Excitation 9001/01-086-390-101

**Voltage Range:**

+6 VDC

**Internal Resistance:**

30 Ω

**Open Circuit Voltage:**

8.6 VDC

**Short Circuit Current:**

377.6 mA

**Classifications:**

FM approved

**Part #69493:**

- Sense 9001/02-016-015-101

**Voltage Range:**

+0.7 VDC

**Internal Resistance:**

127 Ω

**Open Circuit Voltage:**

1.64 VDC

**Short Circuit Current:**

13.7 mA

**Classifications:**FM approved, UL listed,  
CSA certified, SA, CE marked

## Part Number/Price

Part #	Description	Est. Weight	Price
<b>Barrier Kit #1 (For models with ± 5 Volt excitation)</b>			
31202	9002/10-187-270-001, ± Excitation barrier	1 lb	\$450.00
30264	9002/10-187-020-001, ± Sense barrier	1 lb	\$475.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	\$475.00
109663	DIN rail mounted kit #1 (includes 31202, 30264, 30263)	2 lb	\$1,525.00
<b>Barrier Kit #2: (For models with + 10 Volt excitation)</b>			
31201	9001/01-158-390-101, + Excitation barrier	1 lb	\$385.00
69491	9001/02-016-150-111, - Excitation barrier	1 lb	\$350.00
69492	9001/01-168-020-101, + Sense barrier	1 lb	\$325.00
69493	9001/002-016-015-101, - Sense barrier	1 lb	\$375.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	\$475.00
<b>Barrier Kit #3: (For models with + 5 Volt excitation)</b>			
31540	9001/01-083-442-101, + Excitation barrier	1 lb	\$295.00
69491	9001/02-016-150-111, - Excitation barrier	1 lb	\$350.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	\$475.00
<b>Miscellaneous Barriers:</b>			
30266	9001/00-086-390-101, - Excitation barrier	1 lb	\$325.00
30265	9001/01-086-390-101, + Excitation barrier	1 lb	\$325.00
72521	9001-01-199-390-101, + Excitation barrier	1 lb	\$425.00
197643	Barrier, dual channel, RS-422	1 lb	\$435.00
31542	9002/77-093-300-001, RS-232	1 lb	\$425.00

## Options/Accessories:

Part #	Description	Price
33531	DIN rail, 6 in length	\$10.00
35815	IS barrier installation manual	\$5.00
110424	FRP enclosure, up to 4 barriers (not included)	\$225.00
22828	Ground terminal block	\$15.00
42219	Barrier fuse (160 mA)	\$13.65

# MSI-8000HD

Digital Weight Indicator



## Standard Features

- Indicator or RF remote display with six-digit 1.0 in (26.4 mm) LCD screen
- IP68 milled aluminum enclosure
- Membrane keypad for remote-control functionality
- User-definable function keys for added versatility
- Compatible with all ScaleCore™-based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001 TranSend™
- Swivel tilt stand
- NTEP certified configuration

## Options

- Up to 8 configurable relay outputs
- Wi-Fi communications
- Bluetooth® communications
- 802.15.4 Serial RF
- FHSS
- Wired Ethernet

## Approvals



## Specifications

### Enclosure:

NEMA Type 4, IP68 milled anodized aluminum with O-ring gaskets

### Keypad:

On/Off, Zero (100%), Tare, Print, and Two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

### Display:

Six-digit 1.0 in (26.4 mm) LCD

### Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

### Annunciators:

Stable, COZ, peak, kg, kN, lb, M, ton, setpoint, function LEDs  
Channels: 1, 2, 3, 4, TTL

### Power:

90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC  
Optional battery power module available

### Operating Temperature:

-4°F to 140°F (-20°C to 60°C)

### RF Remote Channels:

Up to four remote sensors, monitored individually, in pairs or sum all (non-A/D version only)

### Service Counters:

A/D version only

### A/D Inputs:

Two independent or summing load cell inputs

### Excitation:

4.8V current limited and over-voltage protected

### Filtering:

Off, Low, Hi-1, Hi-2

### RF Radio Link:

2.4 GHz 802.15.4

Compatible with all ScaleCore™-based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001

### RF Effective Range:

Typically 100 or more feet (33m)

### Data I/O:

Dual RS-232 comm ports

### Optional Communications:

Wi-Fi  
Bluetooth®  
Serial RF (Single Sequence or FHSS)

### Warranty:

One-year limited

### Approvals:

NTEP COC#15-110 (-10°C to 40°C)