SEC 3500 HMI Operator Interface

Hardware Manual

Sensor Electronics Corporation
12730 Creek View Avenue
Savage, Minnesota 55378 USA
(952) 938-9486 Fax (952) 938-9617
Email sales@sensorelectronic.com

Commitment

Our quality and service are uncompromising. We back each of our products with a two-year warranty on all materials and workmanship. We offer technical support, user training and on-site service and maintenance of equipment to meet the needs of our customers.

Gas Detection Service

Individually designed maintenance packages are available for specific customer needs. Service begins with verification of the system installation that includes an initial system check and calibration. We then offer customer training programs (on-site and at factory) to insure that technical personnel fully understand operation and maintenance procedures. When on-the-spot assistance is required, service representatives are available to handle any questions or problems immediately.

Warranty

Sensor Electronics Corporation (SEC) warrants products manufactured by SEC to be free from defects in workmanship and materials for a period of two (2) years from date of shipment from the factory. Any parts returned freight pre-paid to the factory and found defective within the warranty would be repaired or replaced, at SEC's option. SEC will return repaired or replaced equipment pre-paid lowest cost freight. This warranty does not apply to items, which by their nature are subject to deterioration or consumption in normal service. Such items may include:
Fuses and Batteries.
Warranty is voided by abuse including rough handling, mechanical damage, alteration or repair. This warranty covers the full extent of SEC liability and SEC is not responsible for removal, replacement costs, local repair costs, transportation costs or contingent expenses incurred without prior written approval. Sensor Electronics Corporation's obligation under this warranty shall be limited to repair or replacement of any product that has been returned to Sensor Electronics Corporation for warranty consideration. This warranty is expressly in lieu of any and all other warranties expressed or implied, and all other obligations or liabilities on the part of Sensor Electronics Corporation including but not limited to, the fitness for a particular purpose. In no event shall Sensor Electronics Corporation be liable for direct, incidental, or consequential loss or damage of any kind connected with the use of its products or failure to function or operate properly.

Table of Contents

Contents

Revision History

Rev	Date	ECO	Description of Change	Page
032113	03/21/13	-	Initial Release	
1	9/20/2016	-	Update to Current P/N Scheme Update Specifications Add Installation Steps Add Testing Add Maintenance Add UL2017 Information	All
2	10/26/2016	-	Change model to SEC3500 HMI Add all Components Inside Enclosure to Specs Add Recommended Power Supply Add Earth Ground Callout to Page 9 Add Note about ISO Comm on Repeaters Add Part about SEC3500 HMI Being the System	All
A		000209	UL2017 Approved	All
B		000298	Add configuration for SEC3500 HMI CR UL2017 Approval for new configuration	All

I. SPECIFICATIONS

Model: SEC3500 HMI/SEC3500 HMI-CR

Interface
RS485 Port: Interactive “Modbus” (expandable to two)
RS232 Port: “Statcast” System parameter broadcast
Ethernet Port: Remote Screen Access
16 Programmable Relays (expandable to 40)

Construction: Powder Coated Steel

Dimensions: 16” X 16” X 10”

Weight: 45lbs

Operating Temperature Rating:
0° to +50°C at 0 to 99% RH (non-condensing)

Operating Voltage: 19 to 29 VDC ⎓

Power Consumption: 40 Watt Max. (Not including relay contact current or 24VDC power supplied to external devices)

Relay Contacts: 1 NO, 1 NC per Relay.
Contact Rating: 8A @ 30VDC, 8A @ 250VAC

Type AM System

System Components:
SEC 3500 Operator Interface (Red Lion HMI)
SEC 3100 Gas Transmitter (Not UL 2017 Approved)
SEC 3500 - XX Relay Controller
SEC 3100 AIM Interface Module (Not UL 2017 Approved)
SEC 3100 LIM Interface Module (Not UL 2017 Approved)
SEC 3100 ISO Repeater
SEC 3500 Enclosure
Circuit Breaker
DC to DC Converter 12-24V to 24V 1A

Approvals: CSA: C22.2 No 0, No 0.4-04, No 14-05, No 142
UL 508
ETL: 5002065 UL 2017 (SEC3500 HMI, whole system)

Installation Category: Cat. I, Pollution Degree 2

RS485 Max Line Impedance: ~100-140Ω

Recommended Power Supply: IDEC PS5R-SD24
Input: 100 to 240VAC Output: 24V 2.5A Power Supply
Other supplies may be used as long as they are class 2 power supplies

II. GENERAL DESCRIPTION

CONVENTIONS

The following conventions are used in this manual.

⚠ Warning Statement

⎓ VDC (DC Voltage)

SEC 3500 HMI

The SEC3500 HMI Operator Interface, an Attendant-Monitored system, continuously interrogates up to 254 system devices over the 9600 baud RS485 Modbus Interface. The OI, operating as the Modbus Master, can communicate with any SEC3XXX Device and any 4-20 transmitter via the SEC3100AIM.
There is a power indicator LED located on the front panel of the 3500.
Network devices can be interrogated, configured, and calibrated using the password protected touchscreen user interface.
16 embedded programmable relays provide external device control/interface based on network events. Additional relays can be located anywhere on the network (groups of 8).
The Statcast RS232 interface continuously scrolls through system operating status. (Read only for the user)
An Ethernet port allows remote access to system screens.
The SEC3500 HMI refers to the system as a whole, not just the SEC3500 (what is inside the metal enclosure).

⚠ WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SAFETY

III. OPERATION

The SEC3500 HMI Operator Interface is an intuitive operator interface. For the individual page operations please refer to the following individual instruction manuals on the SEC website:

3500 OI Basic Operators Guide.pdf

3500 OI Startup Basics Guide.pdf

StatCast.pdf

IV. INSTALLATION

1. Mounting Instructions:
    a. Find an accessible spot for the SEC 3500 to be mounted. This spot should have enough room for incoming/outgoing wires to be easily routed around. The SEC 3500 should be accessible at a regular height so the monitor can be easily accessed at all time alarms. Make sure the monitor is in a safe location in case of alarm.
    b. The SEC 3500 needs to be mounted on a solid wall
    c. Recommended Hardware:
        i. Use all 4 mounting brackets when mounting the SEC 3500
        ii. Bolts: minimum of ¼" – 20 thread, 1 ½" long
        iii. Nuts: ¼" – 20 Thread ½" Wide
        iv. Washers: Minimum 0.260" ID, 0.750" OD for washers between the bolt head and the SEC 3500. Maximum 0.375" ID, Minimum 1.50" OD for washers between mounting wall and bolt

2. The SEC 3500 requires an 18-29V DC power supply. **This power supply must cover Class 2 requirements as well as be UL 1310 approved**. Then run the power through the bottom-left hole of the SEC 3500 unit. Then connect the power supply to the DC-to-DC converter.

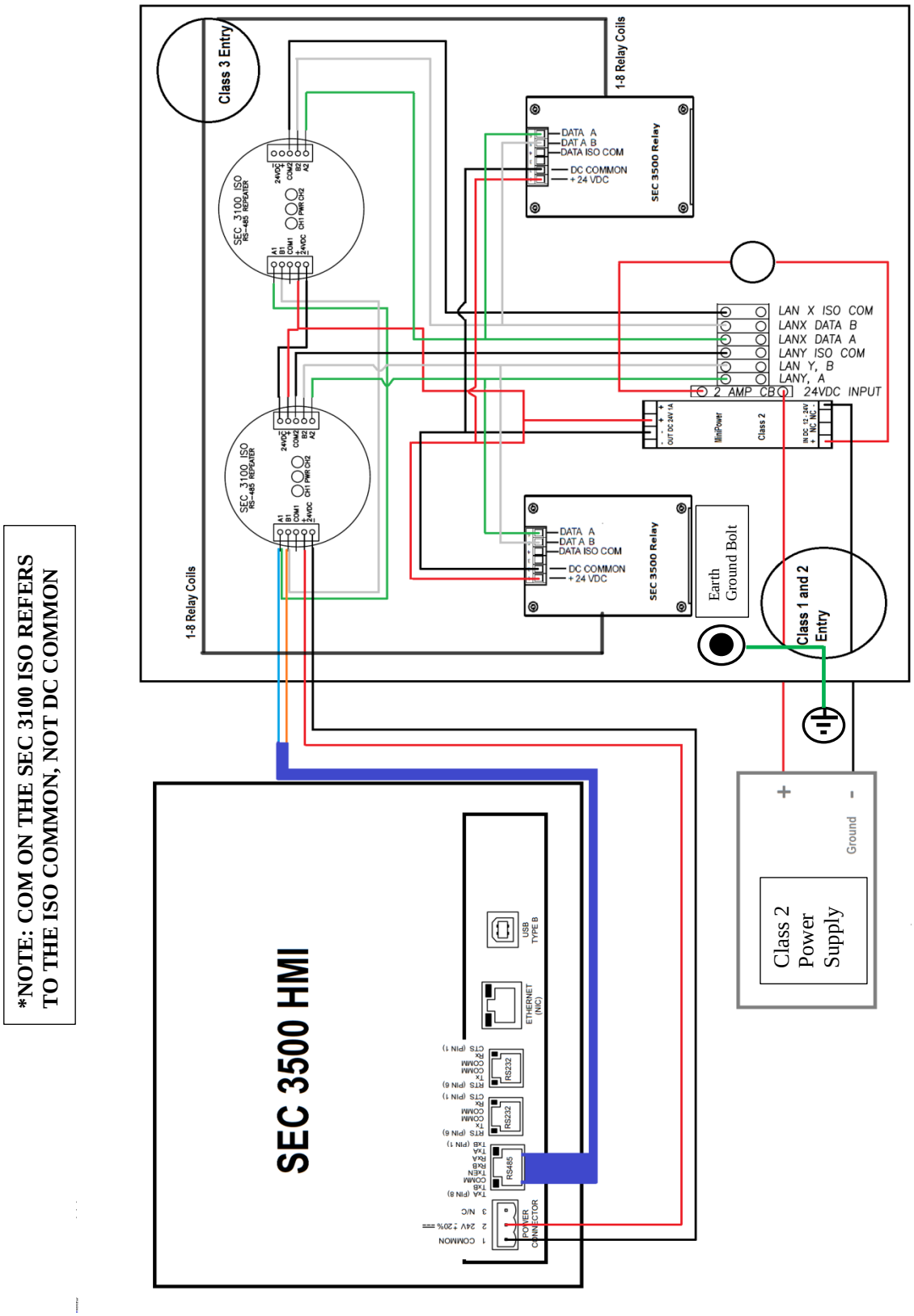
3. Run the RS485 (Data Highway) through the bottom-left side hole of the SEC 3500. Then attach to the data highway to the proper terminals on the terminal block.

4. When connecting 120 VAC (Class 1) circuits to the SEC 3500, wires should be routed through the top-right opening. Then all class 2 and 3 power circuits going to the relay switches should go through the bottom-left opening. Class 1 wires must be kept at least 1/4"inches away from class 2/3 circuits.

5. Relay controller labeled 253 in the SEC3500 HMI housing has relay 1 designated for the alarm horn.
    a. The horn needs to be supplied with +24VDC.

6. Sensor Electronics recommends not connecting earth ground and DC common together. Instead connect earth ground to the bolt inside the enclosure. It is located inside the enclosure on the bottom left and is connected to the panel door.

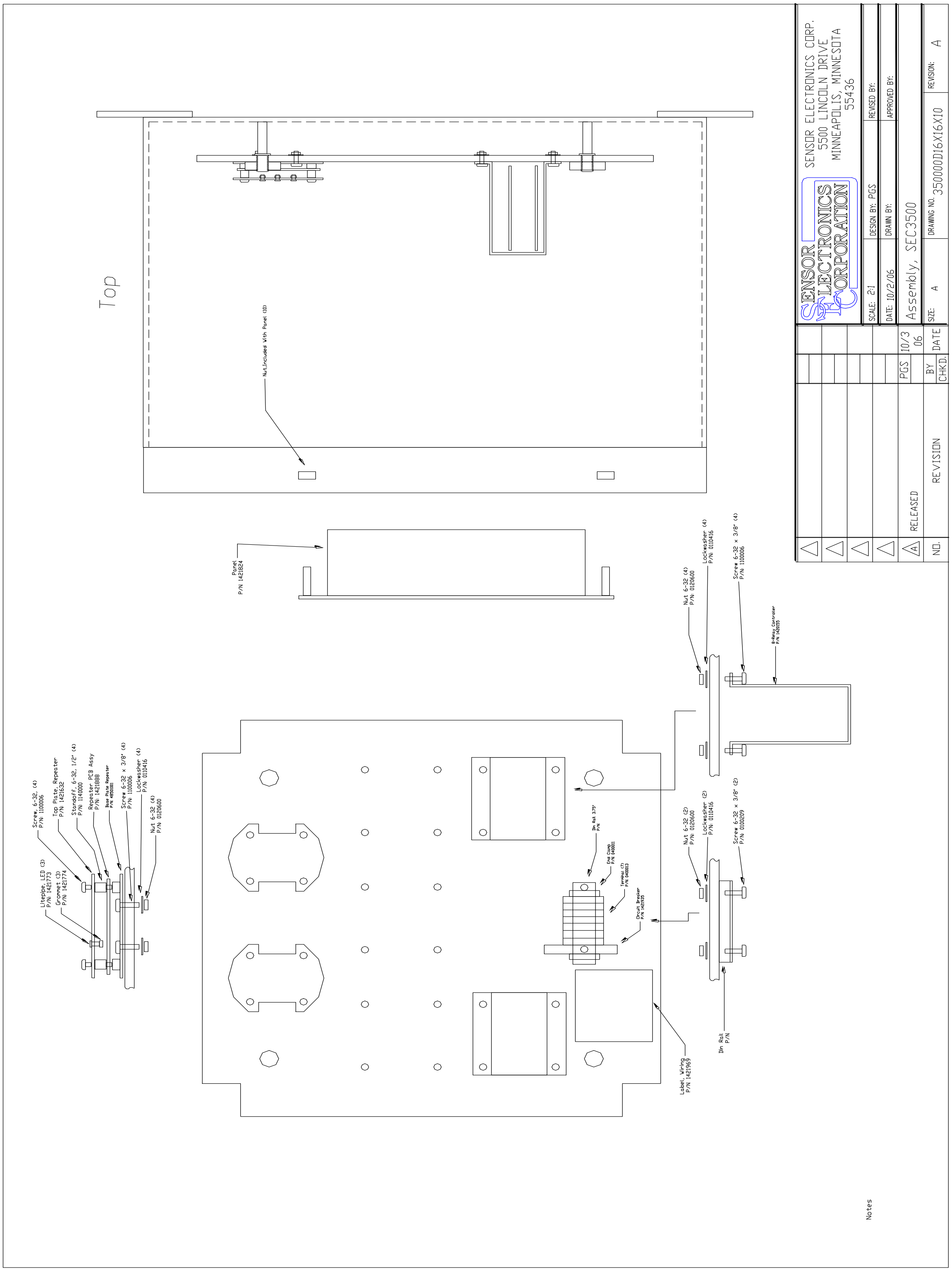
7. **For the UL2017 approval, all wiring that interconnects equipment must be located within the same room.**

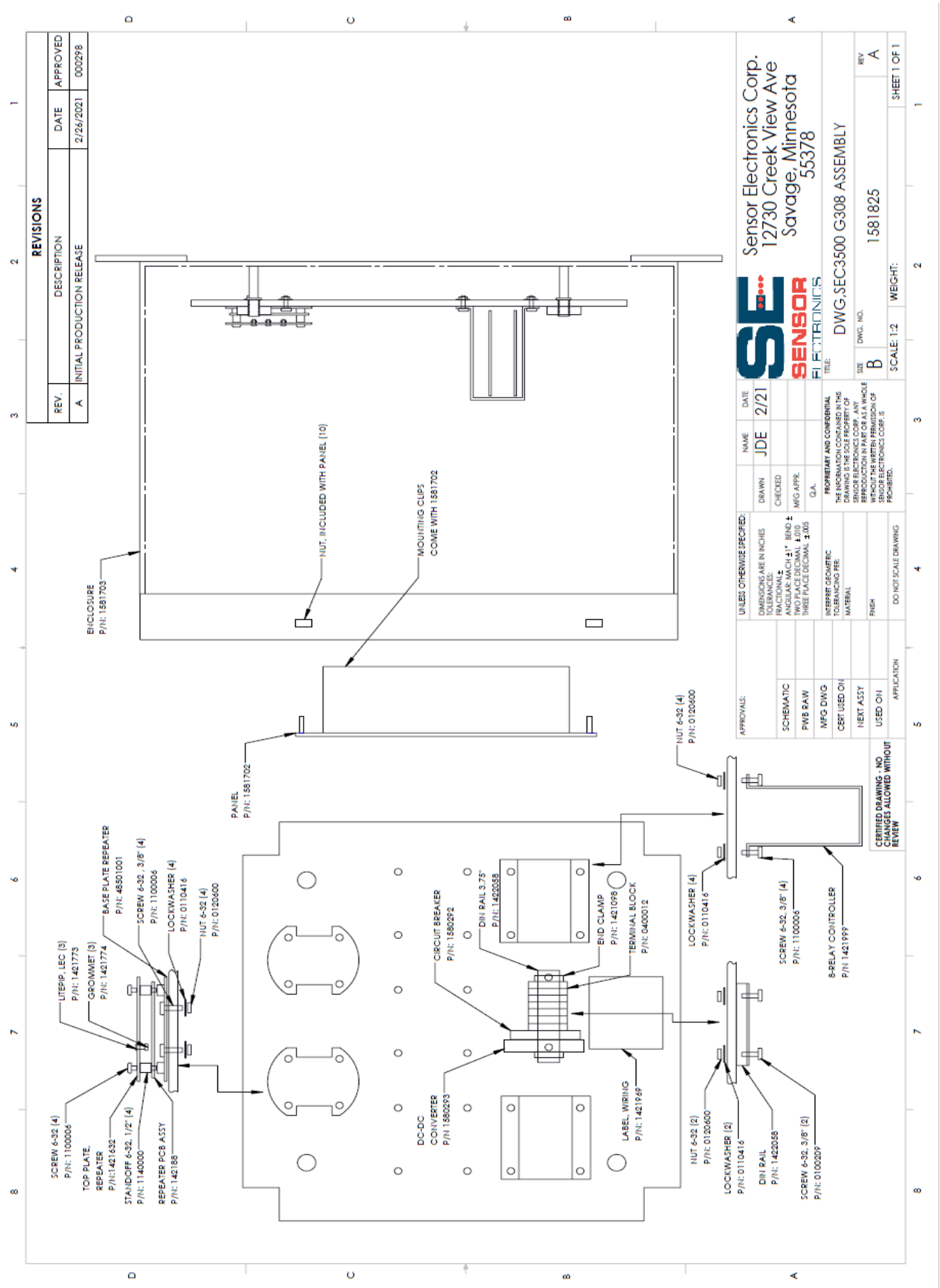


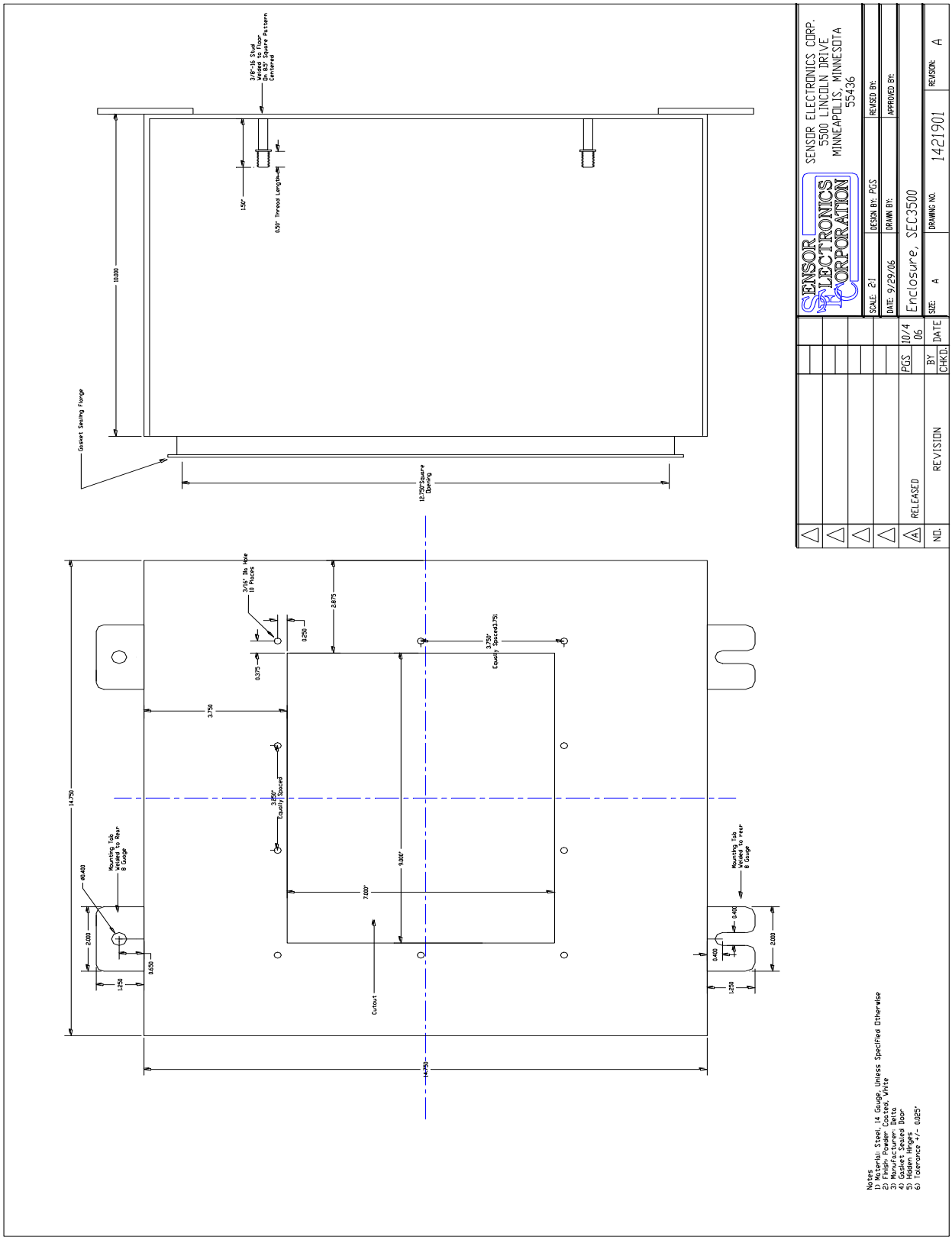
***NOTE: COM ON THE SEC 3100 ISO REFERS TO THE ISO COMMON, NOT DC COMMON**

V. DRAWINGS

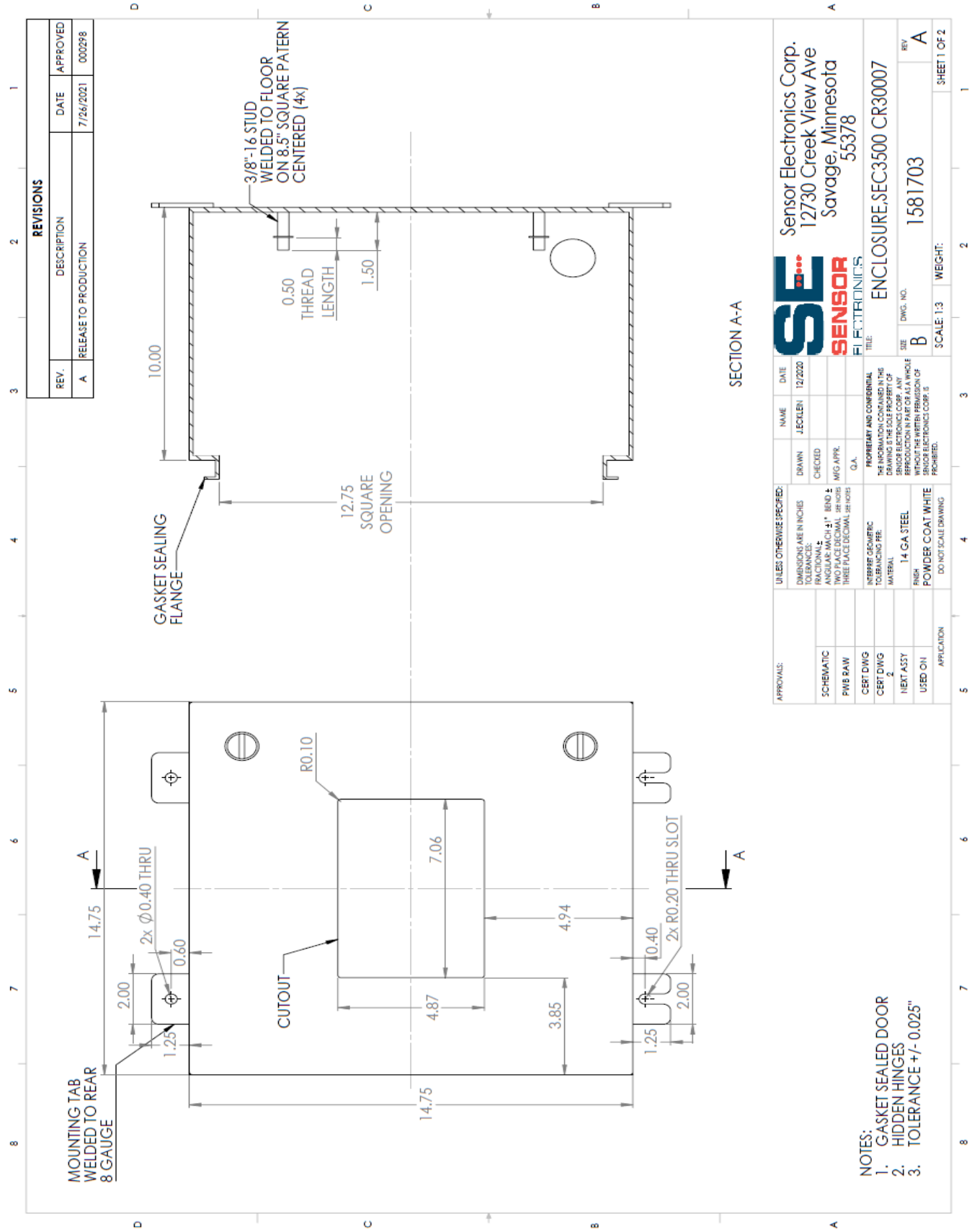
Part Number	Description
1421901	Mounting and Dimensional Drawing
1581703	Mounting and Dimensional Drawing for CR3000 Red Lion Model
350000016X16X10	Internal Component Layout
1581824	Internal Component Layout for CR3000 Red Lion Model
1460015 (separate document)	Overall Wiring Diagram
-	Wiring Examples

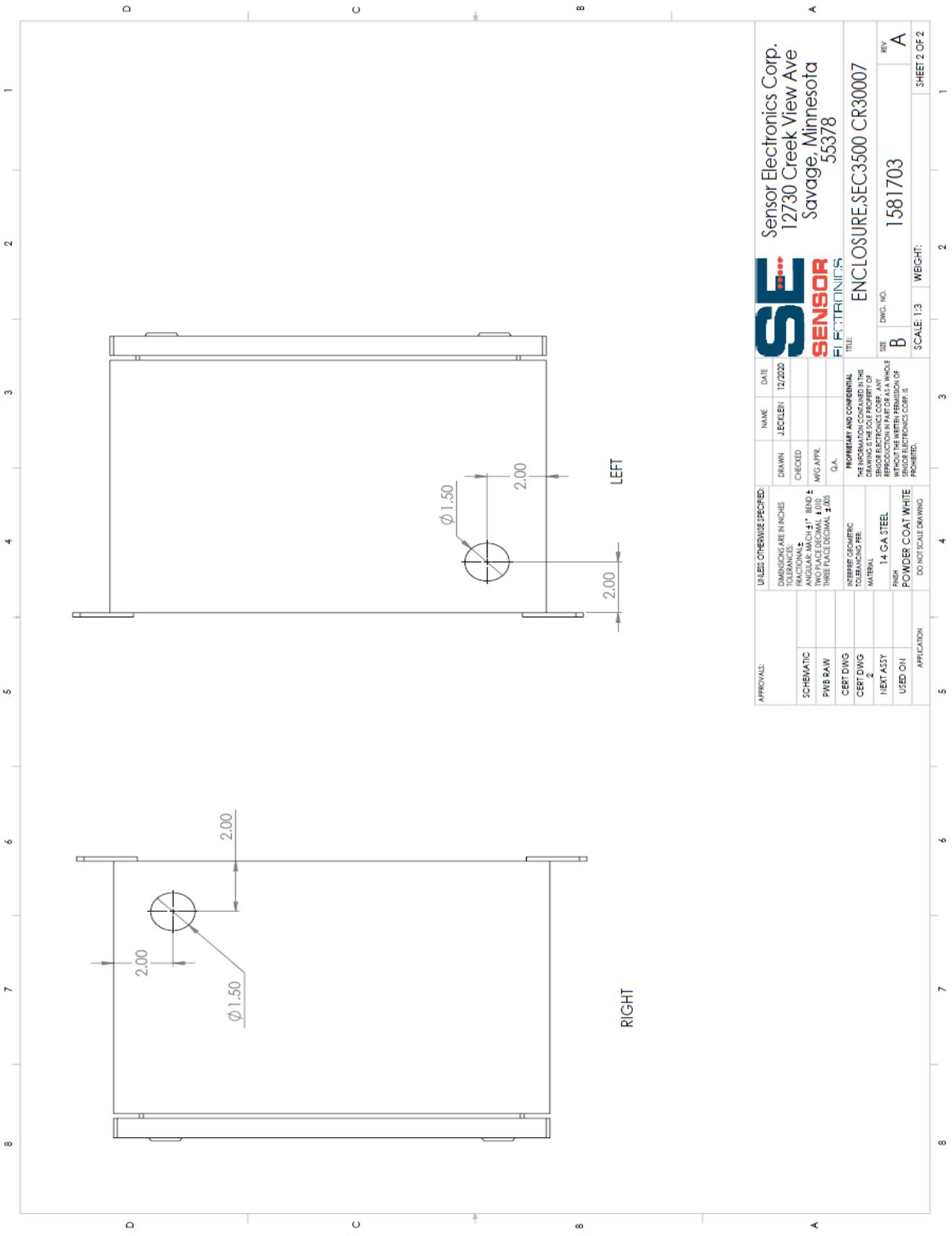

Top
SENSOR ELECTRONICS CORP.
5500 LINCOLN DRIVE
MINNEAPOLIS, MINNESOTA
55436
SCALE: 2:1
DESIGN BY: PGS
DATE: 10/2/06
Assembly, SEC3500
DRAWING NO. 350000D16X16X10
REVISION: A
RELEASED
PGS
10/3
06
REVISION
BY
DATE
CHKD.
NO.
Notes


REVISIONS
REV. DESCRIPTION DATE APPROVED
A INITIAL PRODUCTION RELEASE 2/26/2021 000298
ENCLOSURE P/N: 1581703
NUT, INCLUDED WITH PANEL (10)
MOUNTING CLIPS COME WITH 1581702
PANEL P/N: 1581702
NUT 6-32 (4) P/N: 0120600
LOCKWASHER (4) P/N: 0110416
SCREW 6-32, 3/8" (4) P/N: 1100006
8-RELAY CONTROLLER P/N 1421999
CIRCUIT BREAKER P/N: 1580292
DIN RAIL 3.75" P/N: 1422058
END CLAMP P/N: 1421098
TERMINAL BLOCK P/N: 0400012
DC-DC CONVERTER P/N 1580293
LABEL, WIRING P/N: 1421969
NUT 6-32 (2) P/N: 0120600
LOCKWASHER (2) P/N: 0110416
DIN RAIL P/N: 1422058
SCREW 6-32, 3/8" (2) P/N: 0100209
SCREW 6-32 (4) P/N: 1100006
TOP PLATE, REPEATER P/N:1421632
STANDOFF 6-32, 1/2" (4) P/N: 1140000
REPEATER PCB ASSY P/N: 142188
LITEPIP, LEC (3) P/N: 1421773
GROMMET (3) P/N: 1421774
BASE PLATE REPEATER P/N: 48501001
SCREW 6-32, 3/8" (4) P/N: 1100006
LOCKWASHER (4) P/N: 0110416
NUT 6-32 (4) P/N: 0120600
APPROVALS:
SCHEMATIC
PWB RAW
MFG DWG
CERT USED ON
NEXT ASSY
USED ON
APPLICATION
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±1' BEND ±
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL
FINISH
DO NOT SCALE DRAWING
NAME DATE
DRAWN JDE 2/21
CHECKED
MFG APPR.
Q.A.
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SENSOR ELECTRONICS CORP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SENSOR ELECTRONICS CORP. IS PROHIBITED.
CERTIFIED DRAWING - NO CHANGES ALLOWED WITHOUT REVIEW
Sensor Electronics Corp.
12730 Creek View Ave
Savage, Minnesota
55378
SENSOR ELECTRONICS
TITLE: DWG,SEC3500 G308 ASSEMBLY
SIZE B
DWG. NO. 1581825
REV A
SCALE: 1:2
WEIGHT:
SHEET 1 OF 1



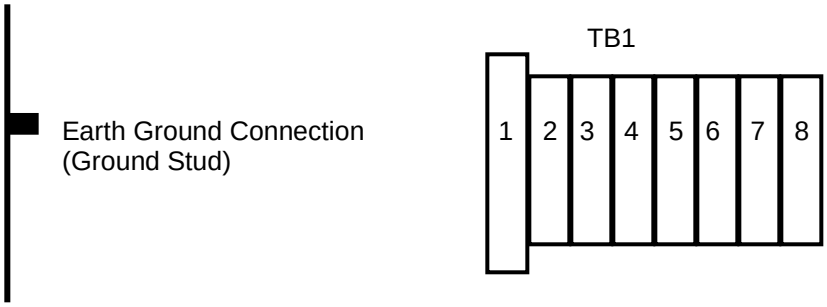
SEC P/N: 1460014	
Rev / ECO: B / 000298	Page **13** of **29**


REVISIONS
REV. DESCRIPTION DATE APPROVED
A RELEASE TO PRODUCTION 7/26/2021 000298
3/8"-16 STUD WELDED TO FLOOR ON 8.5" SQUARE PATERN CENTERED (4x)
0.50 THREAD LENGTH
1.50
10.00
GASKET SEALING FLANGE
12.75 SQUARE OPENING
SECTION A-A
MOUNTING TAB WELDED TO REAR 8 GAUGE
14.75
2x Ø0.40 THRU
2.00
0.60
1.25
CUTOUT
R0.10
7.06
4.87
4.94
3.85
0.40
2x R0.20 THRU SLOT
2.00
1.25
14.75
A
NOTES:
1. GASKET SEALED DOOR
2. HIDDEN HINGES
3. TOLERANCE +/- 0.025"
Sensor Electronics Corp.
12730 Creek View Ave
Savage, Minnesota
55378
SENSOR ELECTRONICS
TITLE: ENCLOSURE,SEC3500 CR30007
SIZE B
DWG. NO. 1581703
REV. A
SCALE: 1:3
WEIGHT:
SHEET 1 OF 2
APPROVALS:
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±1° BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL
14 GA STEEL
FINISH
POWDER COAT WHITE
DO NOT SCALE DRAWING
APPLICATION
NEXT ASSY
USED ON
CERT DWG
CERT DWG 2
SCHEMATIC
PWB RAW
DRAWN JECKLEIN 12/2020
CHECKED
MFG APPR.
Q.A.
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF SENSOR ELECTRONICS CORP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SENSOR ELECTRONICS CORP. IS PROHIBITED.


LEFT
Ø1.50
2.00
2.00
RIGHT
2.00
2.00
Ø1.50
Sensor Electronics Corp.
12730 Creek View Ave
Savage, Minnesota
55378
SENSOR ELECTRONICS
TITLE:
ENCLOSURE,SEC3500 CR30007
DWG. NO.
1581703
REV
A
SIZE
B
SCALE: 1:3
WEIGHT:
SHEET 2 OF 2
APPROVALS:
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±1° BEND ±
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
INTERPRET GEOMETRIC
TOLERANCING PER:
MATERIAL
14 GA STEEL
FINISH
POWDER COAT WHITE
DO NOT SCALE DRAWING
APPLICATION
USED ON
NEXT ASSY
CERT DWG
2
CERT DWG
PWB RAW
SCHEMATIC
DRAWN
CHECKED
MFG APPR.
Q.A.
NAME
J.ECKLEIN
DATE
12/2020
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE PROPERTY OF
SENSOR ELECTRONICS CORP. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
SENSOR ELECTRONICS CORP. IS
PROHIBITED.

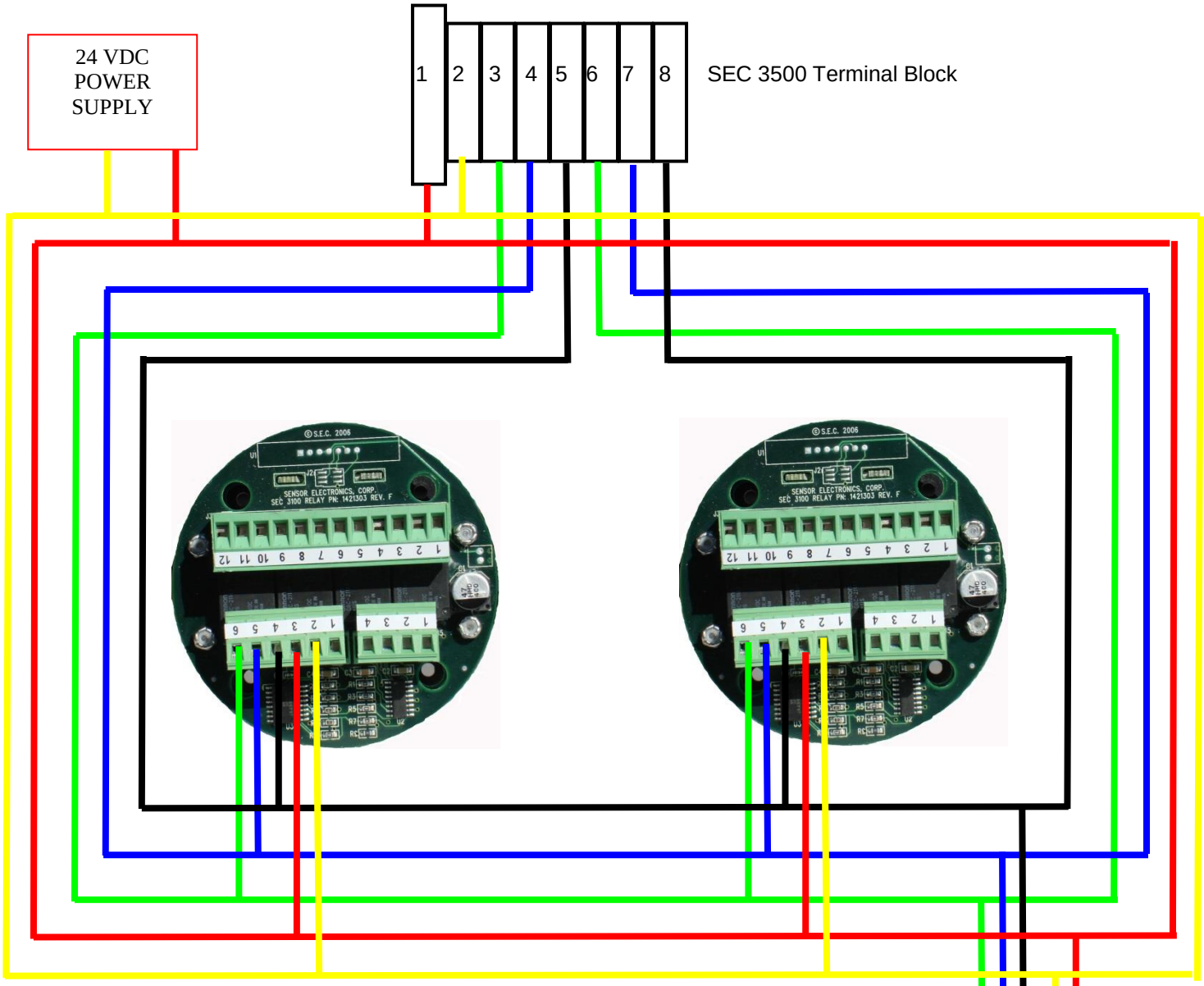
WIRING TERMINATION

The wiring diagram is for the input power to the SEC 3500 and RS485 Data Highway Connection.

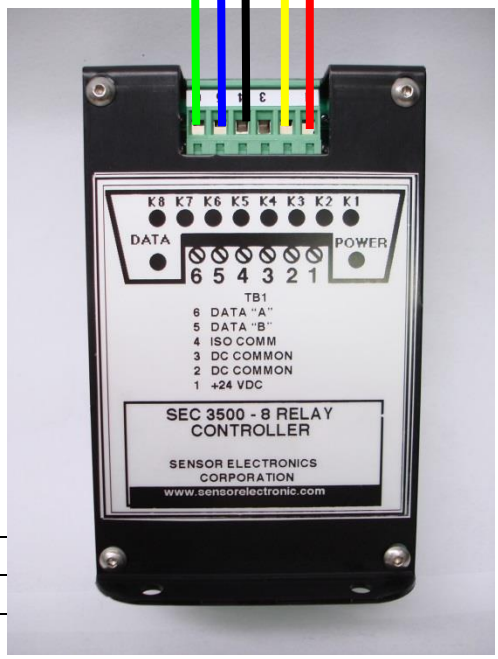


Enclosure Wall

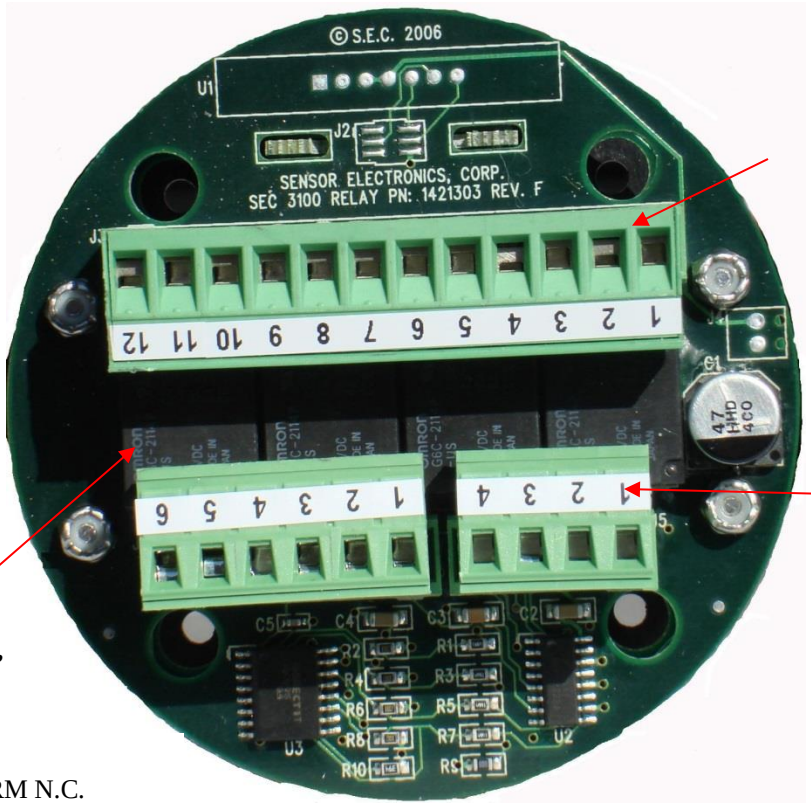
Terminal	Description:
1	2 AMP Circuit Breaker Power for SEC 3500 only
2	DC Common
3	LAN Y DATA A
4	LAN Y DATA B
5	LAN Y ISOLATED DC COMMON
6	LAN X DATA A
7	LAN X DATA B
8	LAN X ISOLATED DC COMMON



WIRING EXAMPLE:
SEC 3500 TO SEC 3100 TRANSMITTERS AND SEC 3500 – 8 RELAY CONTROLLER



SEC P/N: 1460014	
Rev / ECO: B / 000298	



TB 1 RELAY WIRING

TB 3 SENSOR WIRING

TB 2 POWER, DATA HWY, ANALOG OUTPUT

TB 1
(12) LOW ALARM N.C.
(11) LOW ALARM COMMON
(10) LOW ALARM N.O.
(9) MID ALARM N.C.
(8) MID ALARM COMMON
(7) MID ALARM N.O.
(6) HIGH ALARM N.C.
(5) HIGH ALARM COMMON
(4) HIGH ALARM N.O.
(3) FAULT (N.E.) N.C.
(2) FAULT (N.E.) COMMON
(1) FAULT (N.E.) N.O.

TB 2
(1) 4-20 mA ANALOG OUTPUT
(2) DC COMMON
(3) +24 VDC
(4) DATA ISO COMMON
(5) RS485 DATA B
(6) RS485 DATA A

TB 3
(1) WHITE (DATA/CAL)
(2) BLUE OR GREEN (4-20 mA)
(3) RED (+24 VDC)
(4) BLACK (DC COMMON)

SENSOR ELECTRONICS CORPORATION
12730 CREEK VIEW AVE
SAVAGE, MINNESOTA 55378 USA
(T) 952.938.9486 (F) 952.938.9617
sales@sensorelectronic.com

BACK VIEW OF SEC 3100
SEC 3100 WIRING

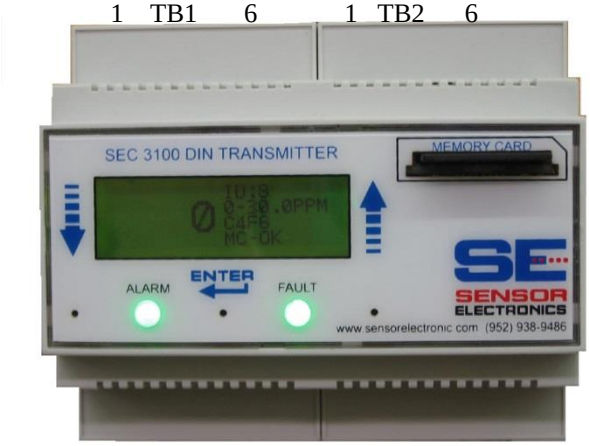
TB 1 Relay Wiring

1 High Alarm N.C.
2 High Alarm
3 High Alarm N.O.
4 Fault N.O.
5 Fault
6 Fault N.C.

TB 2 Relay Wiring

1 Low Alarm N.C.
2 Low Alarm Common
3 Low Alarm N.O.
4 Mid Alarm N.C.
5 Mid Alarm Common
6 Mid Alarm N.O.

1 TB1 6 1 TB2 6



1 TB5 4 1 TB6 6

TB 5 Sensor Wiring

1 DC Common (Black)
2 + 24 VDC (Red)
3 4-20 mA (Blue or Green)
4 Communication (White)

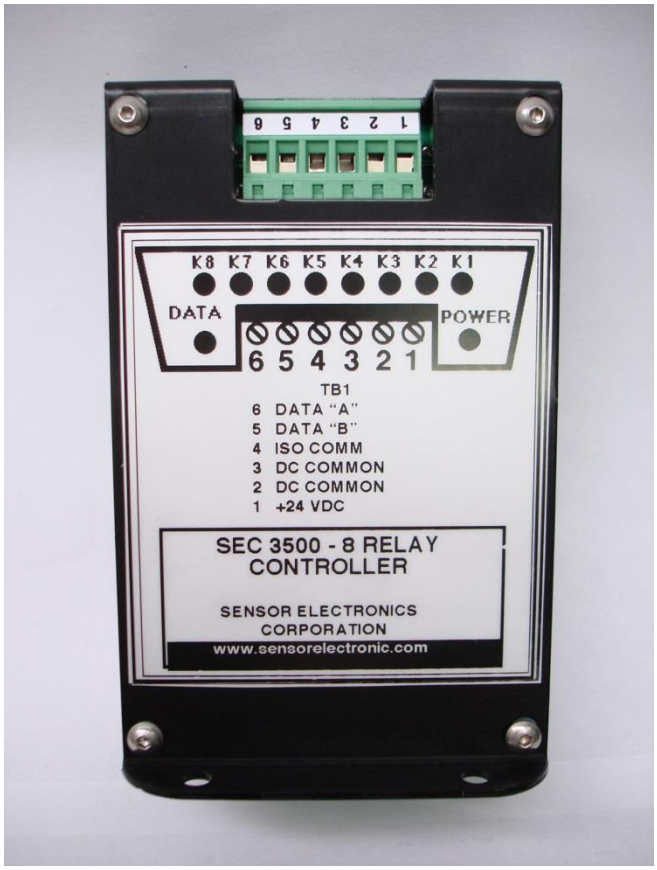
TB 6 Power / Data Wiring

1 Data A
2 Data B
3 Iso-Common
4 + 24 VDC Input Power
5 DC Common
6 4-20 mA Output

Housing Dimensions

3.54 (W) x 4.17 (L) x 2.28 (H) inches
{90 (W) x 106 (L) x 58 (H) mm}

SEC 3500-8 RELAY CONTROLLER



TB 1 (WIRING CONNECTION FOR POWER AND RS485)

TB 2 AND TB 3 (RELAY CONTACT WIRING)

SPECIFICATIONS

INPUT POWER: 10-30 VDC

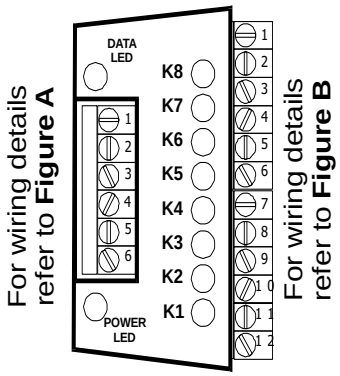
RELAY CONTACT RATING: 8 AMPS @ 250 VAC OR 8 AMPS @ 30 VDC

COMMUNICATION: ISOLATED RS485 (MODBUS)

WEIGHT: SEC 3500 – 8 RELAY CONTROLLER (PN 1421999) 2 LBS
SEC 3500 – 16 RELAY CONTROLLER (PN 1422182) 3 LBS

POWER: SEC 3500 – 8 RELAY CONTROLLER 4 WATTS @ 24 VDC
SEC 3500 – 16 RELAY CONTROLLER 6 WATTS @ 24 VDC

TOP VIEW OF SEC 3500 - 8 RELAY CONTROLLER



TOP VIEW OF SEC 3500 -16 RELAY CONTROLLER

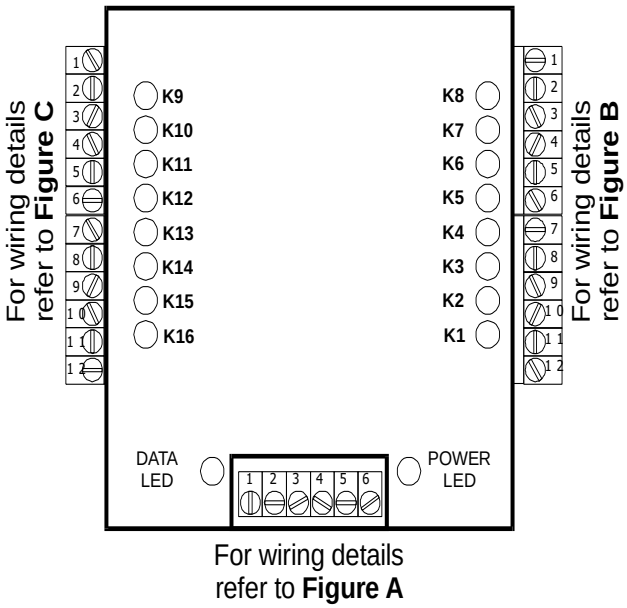


Figure A
(TB 1)

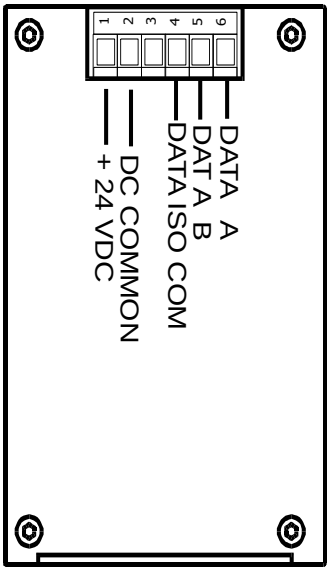


Figure B
TB 2 (K1-K4)
TB 3 (K5-K8)

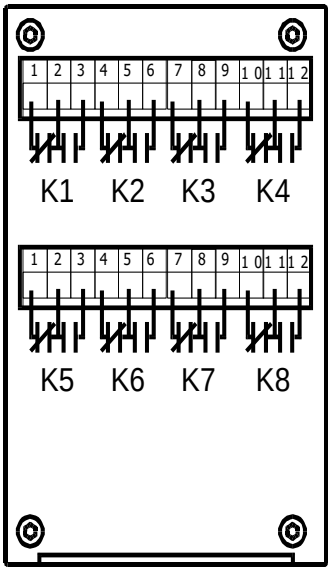
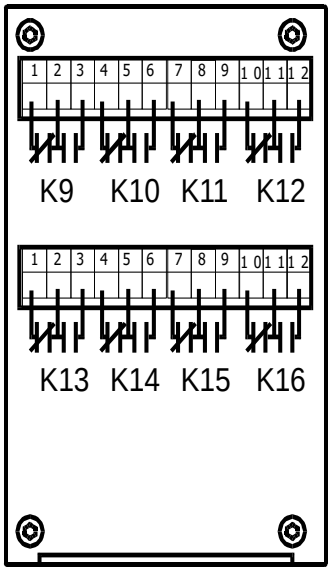
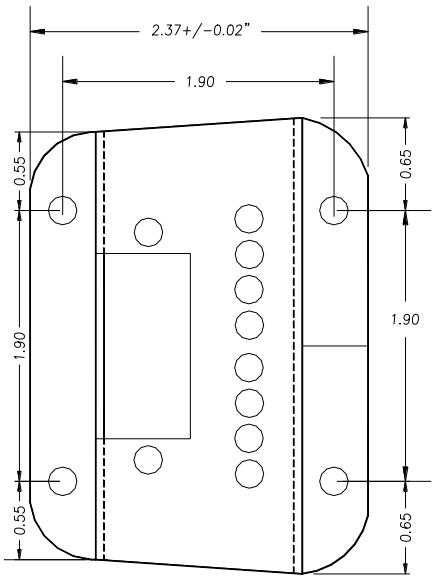


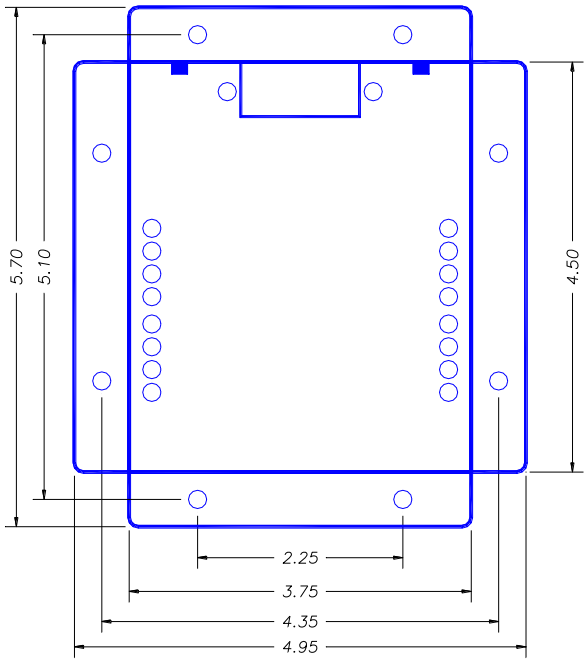
Figure C
TB 4 (K9-K12)
TB 5 (K13-K16)



SEC 3500-8 RELAY CONTROLLER DIMENSIONS



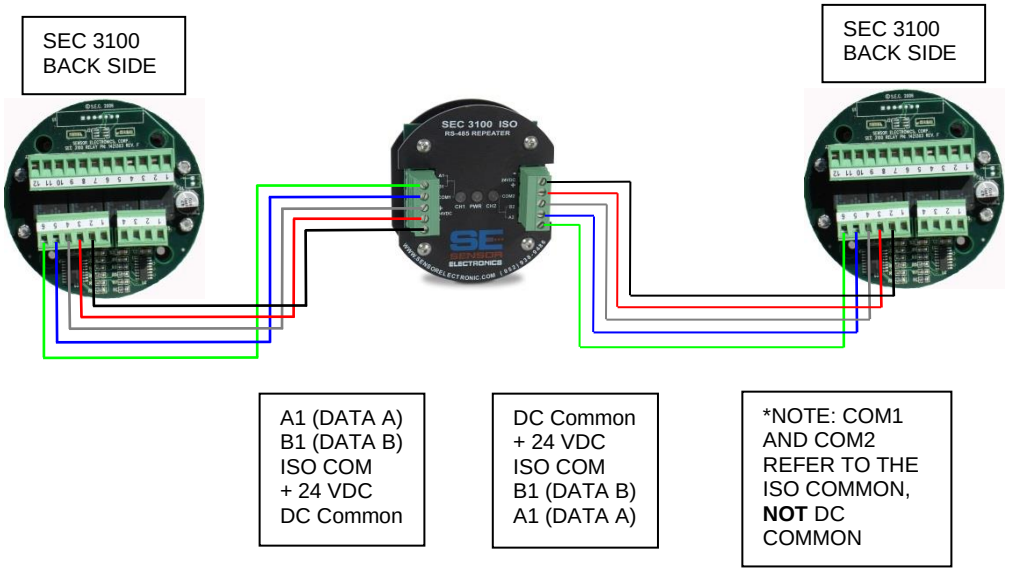
SEC 3500 – 16 RELAY CONTROLLER DIMENSIONS



SEC 3100 ISO
RS-485 Repeater Module

Operation

The SEC 3100 ISO RS-485 Repeater Module is used in conjunction with the SEC 3100 transmitters and the SEC 3500 HMI Operator Interface or other MODBUS RS-485 data highway systems. The SEC 3100 ISO RS-485 Repeater Module is used to extend the distance of the RS-485 network and increase the number of devices on the RS-485 network. The SEC 3100 ISO RS-485 Repeater Module provides 1500 volt isolation bidirectional data flow and transient suppression on the RS-485 data lines. An SEC 3100 ISO RS-485 Repeater Module should be installed for every 1000 feet of data highway cable or 32 network devices. The SEC 3100 ISO RS-485 Repeater Module is powered by 24 VDC and wired in line with the SEC RS-485 network devices. A typical wiring diagram is shown below:



SPECIFICATIONS

Operating Voltage
18-32 VDC

Temperature Rating
-40° to + 70°C

Humidity
0-99% RH (non-condensing)

Operating Current
50mA @ 24VDC

Input / Output (digital)
MODBUS RTU

Part Number
3100-000-REPEAT

SEC 3100 AIM
Analog Input Module

Operation

The SEC 3100 AIM is used in conjunction with the SEC 3100 explosion proof transmitter or SEC 3100 DIN transmitter. A non-SEC device with a conventional analog 4 - 20 mA output is wired to the SEC 3100 AIM. The SEC 3100 AIM receives a sourced 4 - 20 mA signal from the device, converts the analog signal into a digital signal compatible with the SEC 3100 transmitter. The SEC 3100 AIM is factory programmed with the following customer supplied variables:

Device Name
Range
Unit of Measure
Calibration Value

The SEC 3100 visually displays the variables on the LCD the same as if the SEC 3100 had an SEC gas detector connected. The SEC 3100 transmitter reports the foreign device status bidirectional to the SEC 3500 HMI Operator Interface via the MODBUS RS485 communication network. The SEC 3100 AIM can be installed in the SEC 3100 explosion proof transmitter housing using a taller window dome.

The SEC 3100 AIM accepts one device input. Examples of 4 - 20 mA devices that can be used with the SEC 3100 AIM are:

Open Path Gas Detectors
Fire Detectors
Temperature Transmitter
Pressure Transmitter
Pyrolyzers

SPECIFICATIONS

Operating Voltage
18-32 VDC

Operating Current (No Sensor)
50mA @ 24VDC

Output (digital)
SEC SSP (Smart Sensor Protocol)

Temperature Rating
-40° to + 70°C

Humidity
0-99% RH (non-condensing)

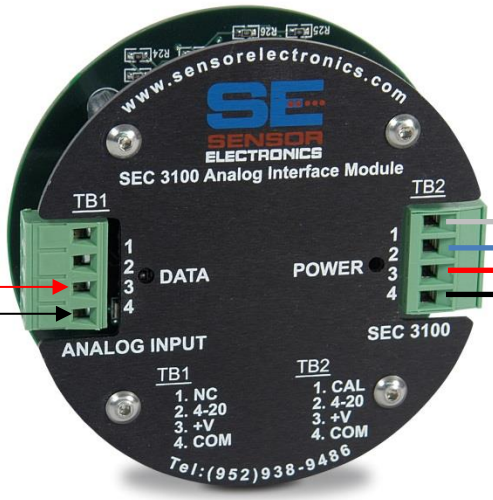
Input
Low Alarm
High Alarm

Device Variable Characters
Device Name: 8
Range: 4
Unit of Measure: 4
Calibration Value: 4

(Standard ASCII Characters)

Part Number
3100-000-000-LIM

SEC 3100 AIM

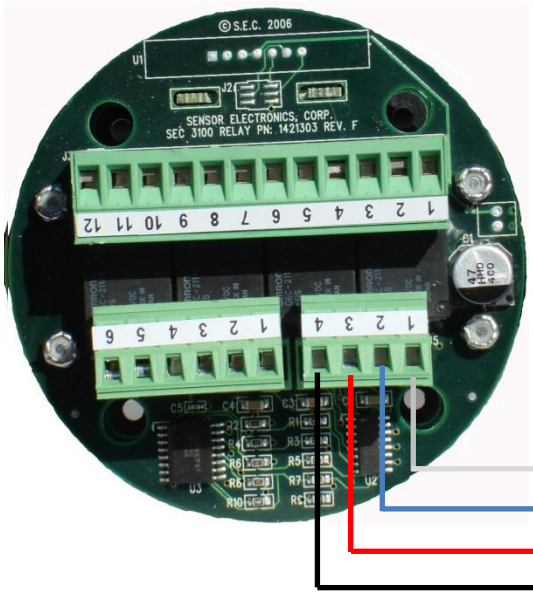


4-20 mA output
+ 24 VDC
DC Common

4-20 mA Device

Pressure Transmitter
Open Path Gas Detector
Pyrolyzer
Temperature Transmitter
Fire Detector

SEC 3100 Transmitter (back side)



SEC 3100 Explosion Proof Transmitter

NOTE: Refer to the SEC 3100 Transmitter Instruction Manual for additional wiring connections.

SEC 3100 LIM
Logic Input Module

Operation

The SEC 3100 LIM is used in conjunction with the SEC 3100 explosion proof transmitter or SEC 3100 DIN transmitter. A non-SEC device with normally open contacts is wired to the SEC 3100 LIM. The SEC 3100 LIM receives a Low and High contact closure from the device, converts the input signal into a digital signal compatible with the SEC 3100 transmitter. The SEC 3100 LIM is factory programmed with the following customer supplied variables:

Device Name
Range
Unit of Measure
Calibration Value

The SEC 3100 visually displays the variables on the LCD the same as if the SEC 3100 had an SEC gas detector connected. The SEC 3100 transmitter reports the foreign device status bidirectional to the SEC 3500 HMI Operator Interface via the MODBUS RS485 communication network. The SEC 3100 LIM can be installed in the SEC 3100 explosion proof transmitter housing using a taller window dome.

The SEC 3100 LIM accepts one device input for Low Alarm and High Alarm. Examples of switch contact devices that can be used with the SEC 3100 LIM are:

Open Path Gas Detectors
Fire Detectors
Temperature Switch
Pressure Switch

Specifications

Operating Voltage
18-32 VDC

Operating Current (No Sensor)
50mA @ 24VDC

Output (digital)
SEC SSP (Smart Sensor Protocol)

Temperature Rating
-40° to + 70°C

Humidity
0-99% RH (non-condensing)

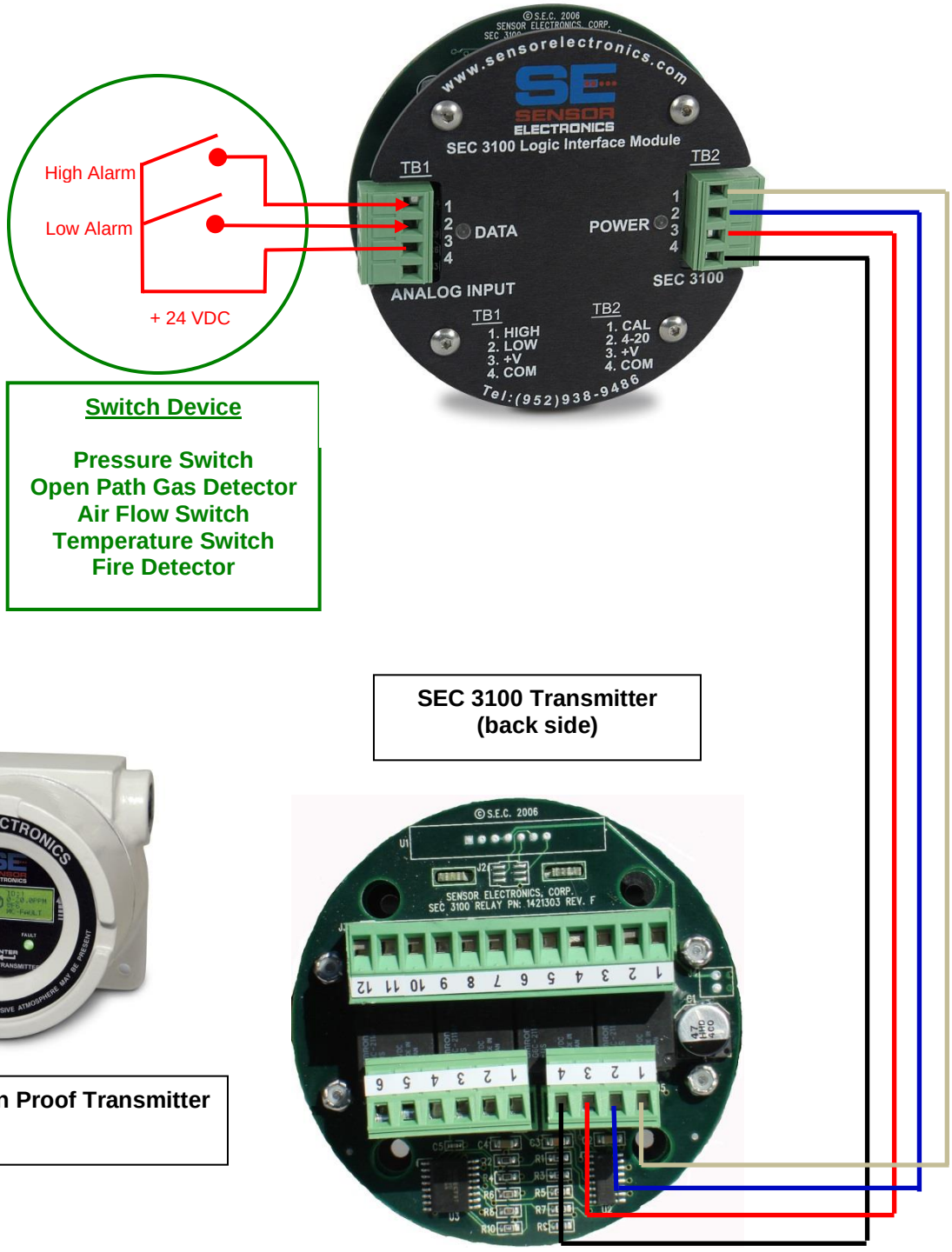
Input (analog)
Impedance: 200 Ω
Max applied voltage: 32 VDC

Device Variable Characters
Device Name: 8
Range: 4
Unit of Measure: 4
Calibration Value: 4

(Standard ASCII Characters)

Part Number
3100-000-000-AIM

SEC 3100 LIM



Switch Device

Pressure Switch
Open Path Gas Detector
Air Flow Switch
Temperature Switch
Fire Detector

SEC 3100 Transmitter (back side)

SEC 3100 Explosion Proof Transmitter

NOTE: Refer to the SEC 3100 Transmitter Instruction Manual for additional wiring connections.

VI. TESTING

In order to test the system and its functions, Navigate to the 3100 Manual Control page and begin a device Self-Test. This will simulate the sensor going into Low, Mid then High alarm. As the sensor goes through these alarms the 3500 screen should show the sensor going into alarm and respond accordingly (turn fan on/siren/lights/etc.…) depending on the user's system settings and what the response to those alarms.

To keep an alarm on longer than the Self-Test runs or to leave an alarm on indefinitely, this can be done through the SEC 3500 OI. Navigate to the Relay Assignment page and set the desired relay to On. This will keep the alarm active until this is changed back.

VII. MAINTENANCE

Maintenance will need to be done by SEC personal. The maintenance needed is minimal. If issues arise and maintenance is needed, please contact Sensor Electronics at 952-938-9486.