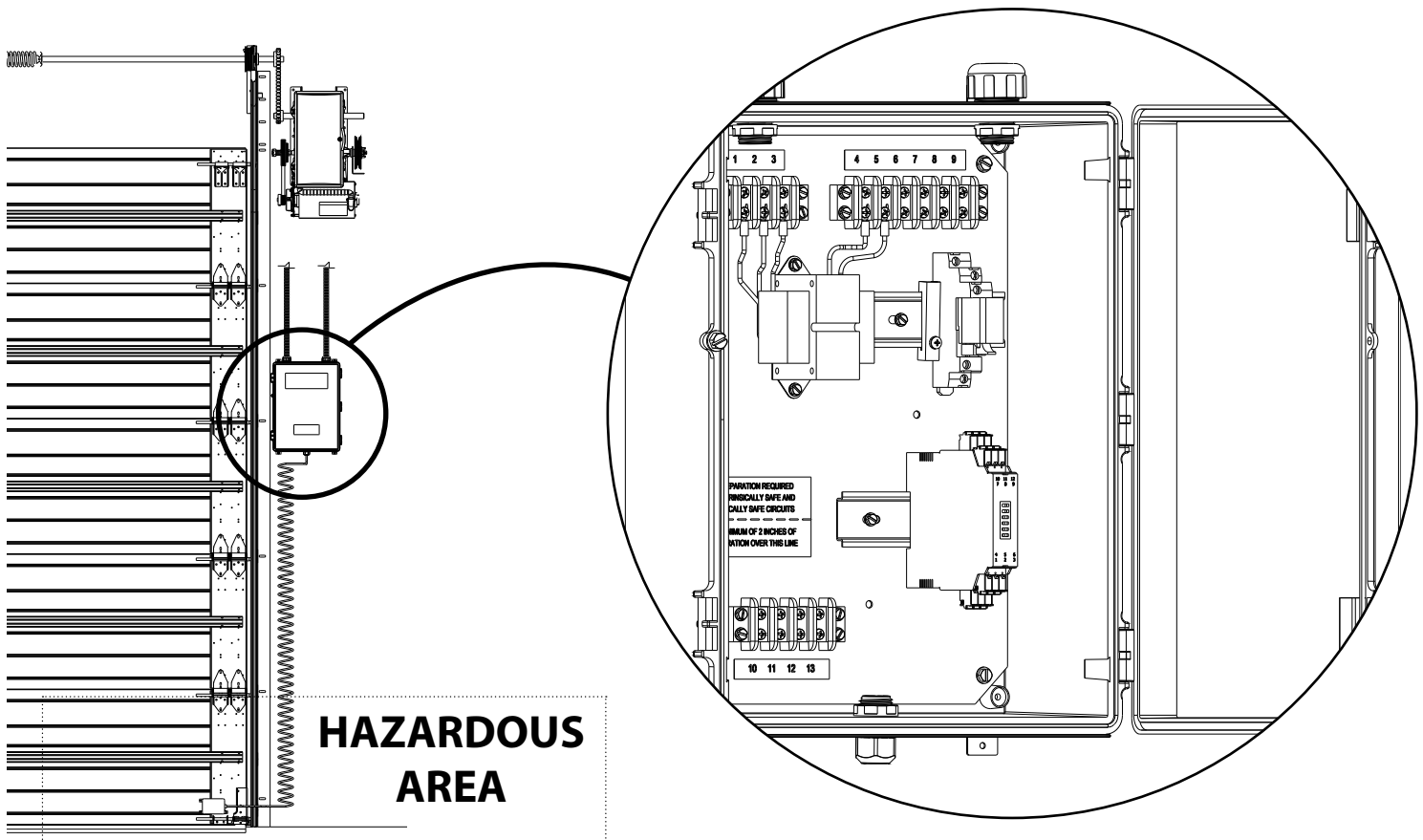


# INTRINSICALLY SAFE SAFETY EDGE CONTROLLER

This manual covers the following models: OPAKIST2EGX1 & OPAKIST2EGX3



The OPAKIST2 Controllers are designed for use with safety edges installed in Class I, Division 2, Group D and Class I, Zone 2, Group IIA locations, where the controller is installed outside of the designated hazardous area.

The controllers provide for an intrinsically safe safety edge connection to NON-Explosion Proof operators mounted outside of the designated hazardous area.

These controllers provide connection of T-2 type Monitored Edge Sensors to X-Series operators. They can also be used to connect a Normally Open safety edge to an operator with a 2-wire N/O safety input.

## NOT FOR RESIDENTIAL USE

## INSTALLATION:



### WARNING

BE SURE ELECTRICAL POWER HAS BEEN DISCONNECTED FROM THE INPUT POWER LINE'S PRIOR TO REMOVING THE ELECTRICAL BOX COVER. AN APPROPRIATE LOCKOUT/TAGOUT PROCEDURE IS REQUIRED.

### NOTE: DO NOT DRILL ADDITIONAL HOLES INTO ENCLOSURE

1. REMOVE POWER FROM OPERATOR. USE PROPER LOCKOUT/TAGOUT PROCEDURES (REFERENCE OSHA STANDARD 1910.147)
2. Mount controller below the operator at  $\frac{1}{2}$  the distance of the door height. FIG. 1.

**NOTE:** Controller must be mounted outside the defined hazard area. FIG.1.

3. Use template for proper hole pattern. FIG. 2.
4. Secure controller to wall using fasteners appropriate to the wall material (Fasteners not included).

FIG. 1

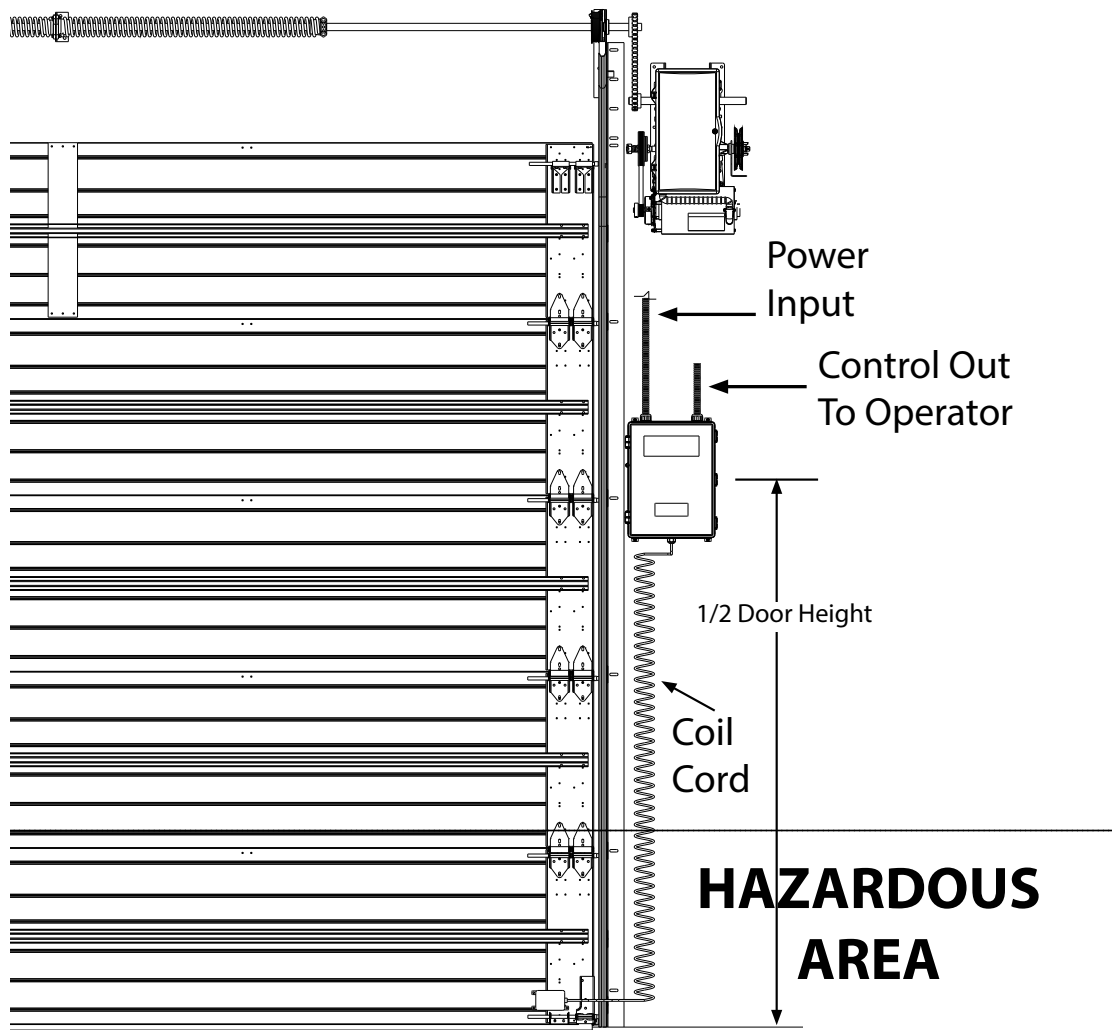
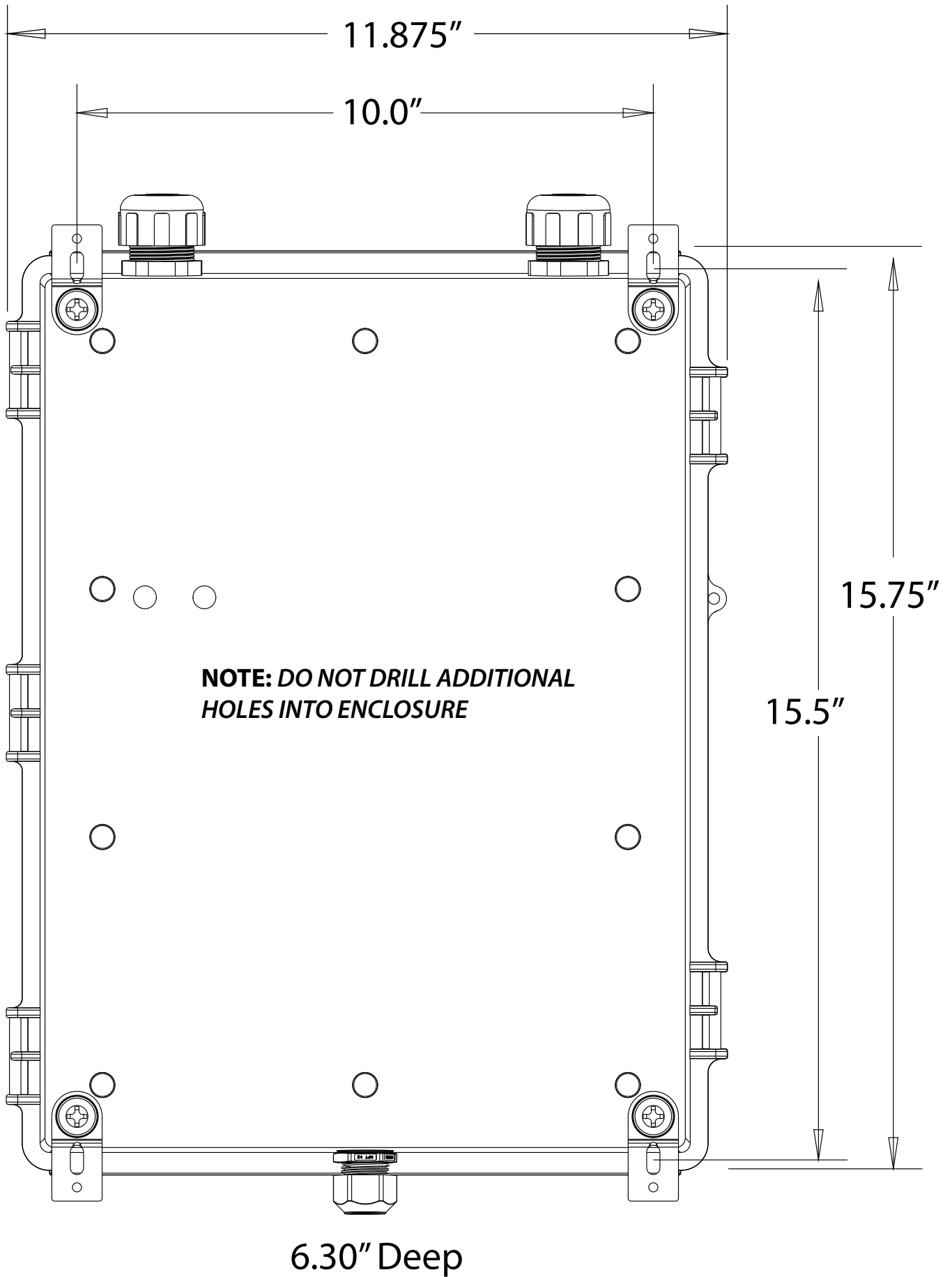


FIG. 2



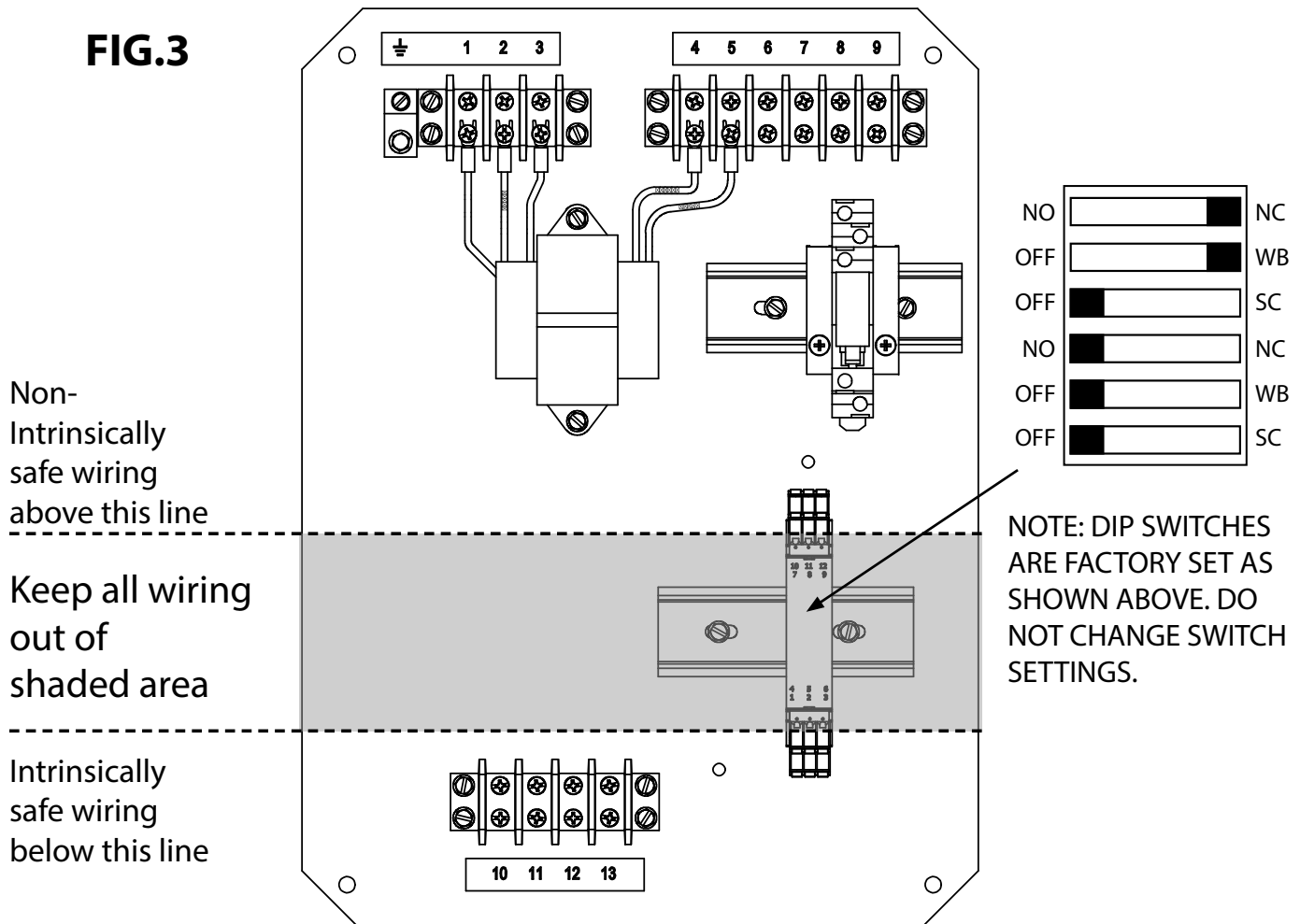
## WIRING:

**NOTE:** WIRING MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRIC CODES

1. Route proper conduit to included conduit connectors on enclosure for power input and operator control wiring.
2. Use COIL CORDS ONLY for T2 Monitored edge wiring. DO NOT use take-up reel.
3. Verify power source to controller rating on cover nameplate.
4. Power Connection – SINGLE PHASE CONTROLLER, See FIG. 4
  - Connect 120V power source to Terminals 1 & 2, or connect 208/230V power source to Terminals 2 & 3.
  - Connect ground wire to grounding lug in Controller.
5. Power Connection – THREE PHASE CONTROLLER, See FIG. 5
  - Connect 208/230V power source to Terminals 1 & 2, or connect 460V power source to Terminals 2 & 3.
  - Connect ground wire to grounding lug in Controller.
6. T2 Monitored Edge – Connect T2 edge wires to Coil Cord. Connect other end of Coil Cord to Terminals 10 & 11 in Controller.
7. Connect wires from Terminals 6 & 7 in Controller to MON EDGE and GND Terminals on Timer Control Module or Edge Sensing Module in Genie X Series operator, or to ODC STB terminals using a Monitored Edge Interface Module (OPAKMEIGX.S)
8. Normally Open Edge – Connect edge wires to Coil Cord. Connect other end of Coil Cord to Terminals 12 & 13 in Controller.
9. Connect wires from Terminals 8 & 9 in controller to Normally Open Safety Input in Electric Operator.

**NOTE:** SEPARATION OF CIRCUITS MUST BE MAINTAINED. KEEP ALL POWER AND CONTROL WIRING SEPARATE FROM INTRINSICALLY SAFE WIRING. SEE FIG. 3

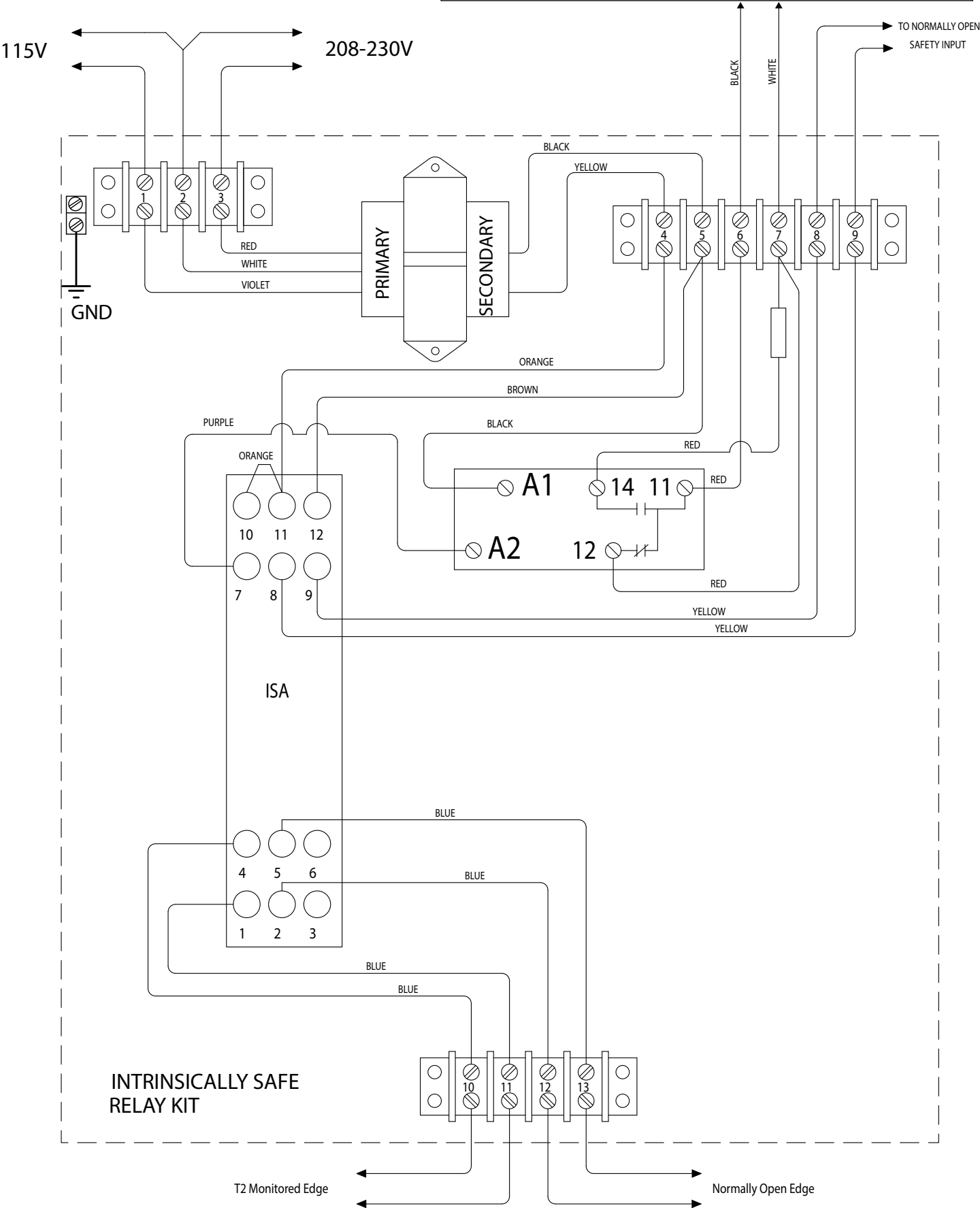
**FIG.3**



WIRING DIAGRAM: FIG. 4

SINGLE PHASE

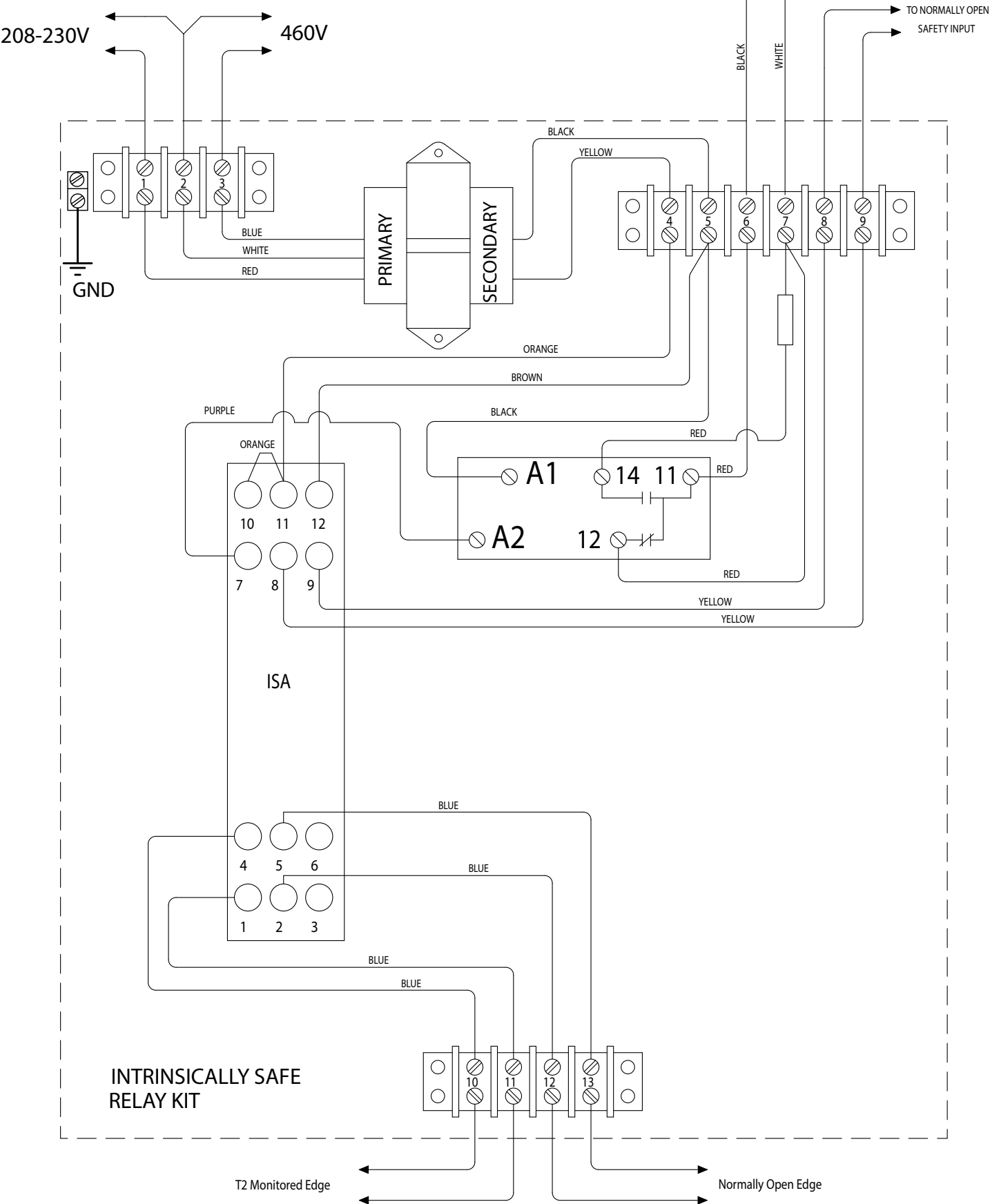
CONNECT TO ODC-STB TERMINALS WITH OPAKMEIGX.S MODULE OR  
CONNECT TO "MON EDGE" AND "GND" TERMINALS ON TIMER CONTROL  
MODULE (TCM) - OPABTCGX.S OR EDGE SENSING MODULE (ESM) - OPABESX.S



WIRING DIAGRAM: FIG. 5

THREE PHASE

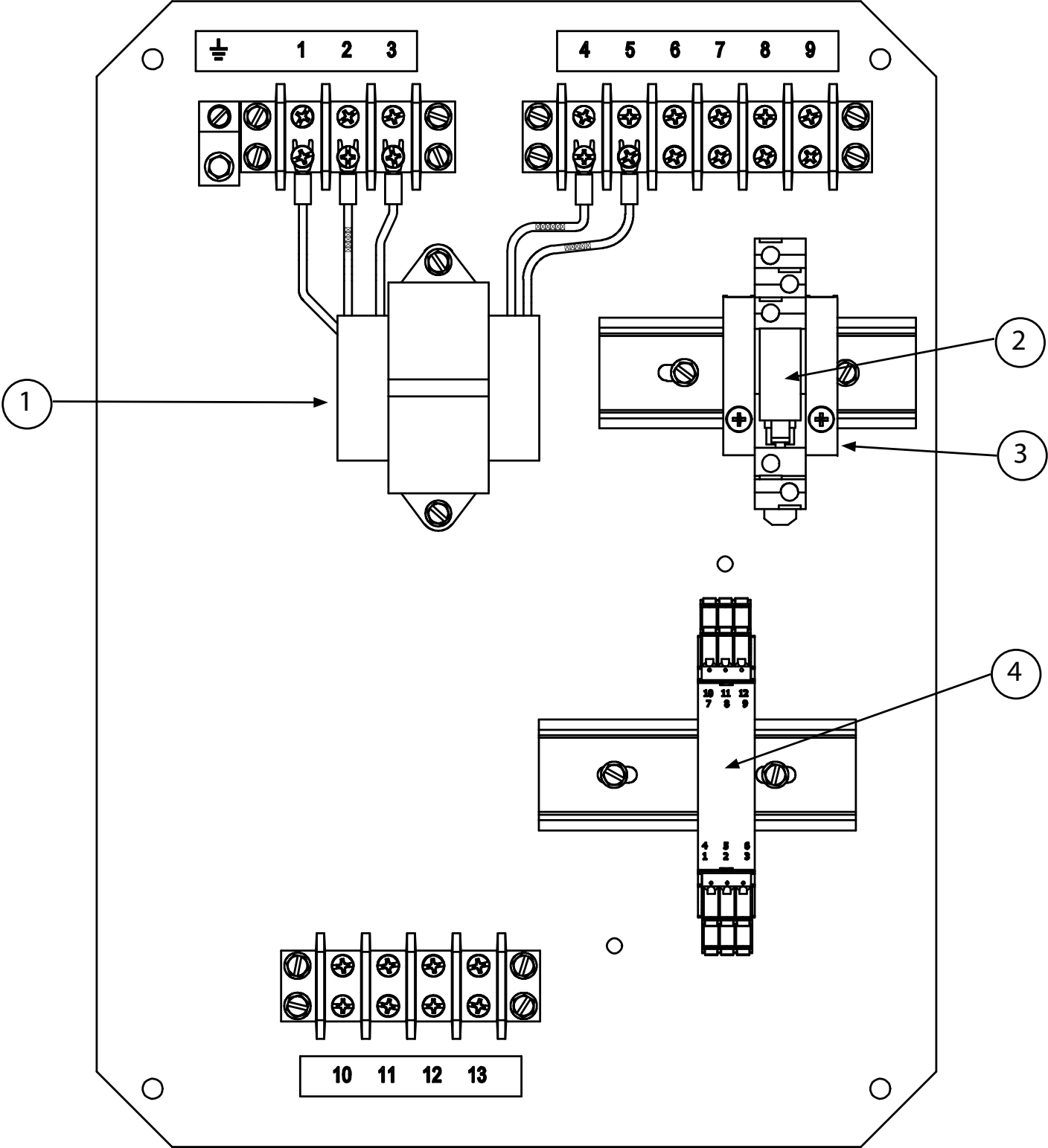
CONNECT TO ODC-STB TERMINALS WITH OPAKMEIGX.S MODULE OR  
CONNECT TO "MON EDGE" AND "GND" TERMINALS ON TIMER CONTROL  
MODULE (TCM) - OPABTCGX.S OR EDGE SENSING MODULE (ESM) - OPABESX.S



REPLACEMENT PARTS:

ITEM	DESCRIPTION	PART NUMBER
1	Transformer, 1 Phase	112972.0001.S
	Transformer, 3 Phase	112972.0002.S
2	Relay	112999.0001.S
3	Socket, Relay	112505.0002.S
4	Intrinsically Safe Barrier	113000.0001.S

Specify model and voltage when ordering parts









**COMMERCIAL LINE**

## **T-2 Intrinsically Safe Electric Box Limited Warranty**

The Distributor of The Genie Company products whose name appears below ("Seller") warrants to the original purchaser of the T-2 Intrinsically Safe Electric Box specified below ("Product"), subject to all the terms and conditions hereof, that the Product and all components thereof will be free from defects in material and workmanship under normal use and service for the following period, measured from the date of installation:

- One (1) year

Seller's sole obligation under this warranty is specifically limited to repairing or replacing, at its option, the Product or any part thereof which is determined by Seller to be defective during the applicable warranty period. Any labor charges are excluded and will be the responsibility of the purchaser. This warranty is made to the original purchaser of the Product only, and is not transferable or assignable.

This warranty applies only to the Product which is installed in commercial or industrial building applications. This warranty does not apply to any unauthorized alteration or repair of the Product, or to any Product or component which has been damaged or deteriorated due to misuse, neglect, accident or failure to provide necessary maintenance, normal wear and tear, or acts of God or other causes beyond the reasonable control of Seller and does not cover batteries, or repairs and maintenance to the operator or door components.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SELLER BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if Seller has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of goodwill, loss of profits, loss of use, interruption of business, or other similar indirect financial loss.

Claims under this warranty must be made promptly after discovery, within the applicable warranty period, and in writing to the authorized distributor or installer whose name and address appeared below. (Proof of purchase and identification as the original purchaser may be required.) The purchaser must allow Seller reasonable opportunity to inspect any Product claimed to be defective prior to removal or any alteration of its condition.

Model # (On electric box cover) \_\_\_\_\_  
Serial # (On electric box cover) \_\_\_\_\_  
Date Code \_\_\_\_\_  
Original Purchaser \_\_\_\_\_  
Installation Address \_\_\_\_\_  
Seller \_\_\_\_\_  
Sellers Address \_\_\_\_\_  
Date of Installation \_\_\_\_\_  
Signature of Seller \_\_\_\_\_

[illegible]

[illegible]



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COMMERCIAL LINE

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**FOR TECHNICAL ASSISTANCE CALL  
1-800-275-6187**