RIC 290 Quick Setup Guide and Preferred Settings Aug2018

1. Sensors must be mounted at the correct height per the manual. (Use the Template provided)
2. Header covers must be secure with no movement.
3. See opposite side for wire diagram showing dip switch settings which should be set to address the sensors before powering up the unit. If the unit is powered before the sensors are addressed correctly, then you will get error messages stating that the incorrect addresses cannot be found. To correct, you must go to Parameters then to CANbus and open to find any listed sensor with a question mark must be disabled.
4. After powering the unit up, it is important to do a “Learning System” operation followed by a “Learning Sensors” to have everything in running order.
5. Safety detection field (Row). Eliminate Row 1 which is the curtain greatest distance from the face of the door when you have a rug or a mat with a gap between the two surfaces. (SI1 and SA1)
6. Put the door in “hold open” and use the detection field screen to adjust the curtain with the manual adjustment screw so it is 5” from the face of the door with safety beams and 3” without them.
7. Microwave or motion; anytime an adjustment is made mechanically or a Parameter change is made to the motion, it is necessary to perform a new “Learning Sensor” operation (AKI1 and AKA1).

Recommended AKI & AKA Settings	**Note: Scene must be set first**
Scene: 0-Standard (recommended for bipart slide) 1-Supermarket	3-Pavement (recommended for single slide) 4-Niche
Sensitivity: 15 (starting point)	**Wide Field:** Determined by scene selection
Auto Mode: 1-Enabled (recommended)	**Direction of Detection:** 1-Enabled (recommended)
Change Direction of Detection: 0– Disabled (recommended)	**Higher Sensitivity:** 0– Disabled (recommended)
Hold Time: 6 (recommended)	**Suppression, Cross Traffic:** 1– Enabled **Door Leaf** 1– Enabled (recommended)

Recommended SI & SA Sensor settings	**Note: “Must set to meet ANSI156.10 Standard”**
Scene: 5- Interior (not recommended) 7- Outside, Protected (w/canopy)	6– Exterior Door, Inside 8- Outside, Unprotected (w/o canopy)
Filter: (Sensitivity setting; this set with scene also) 0- (not recommended) 10– not recommended)	20– (recommended) 30- (recommended) 40- (not recommended)
Detection Field: (Used for setting pattern widths or eliminating a row.	**Use as guide to set safety curtain to within 3” of the face of the door without safety beams or within 5” with safety beams measured at 28” from floor.**
Auto Adapt Time: 6 (setting for 30 second relearn time)	**Sampling Frequency:** 5 (Auto)
Suppression, Background Check: 0– Disabled (typical setting; checked at 28” from floor))	1– Enabled (used on tall doors; check at 28” from floor)

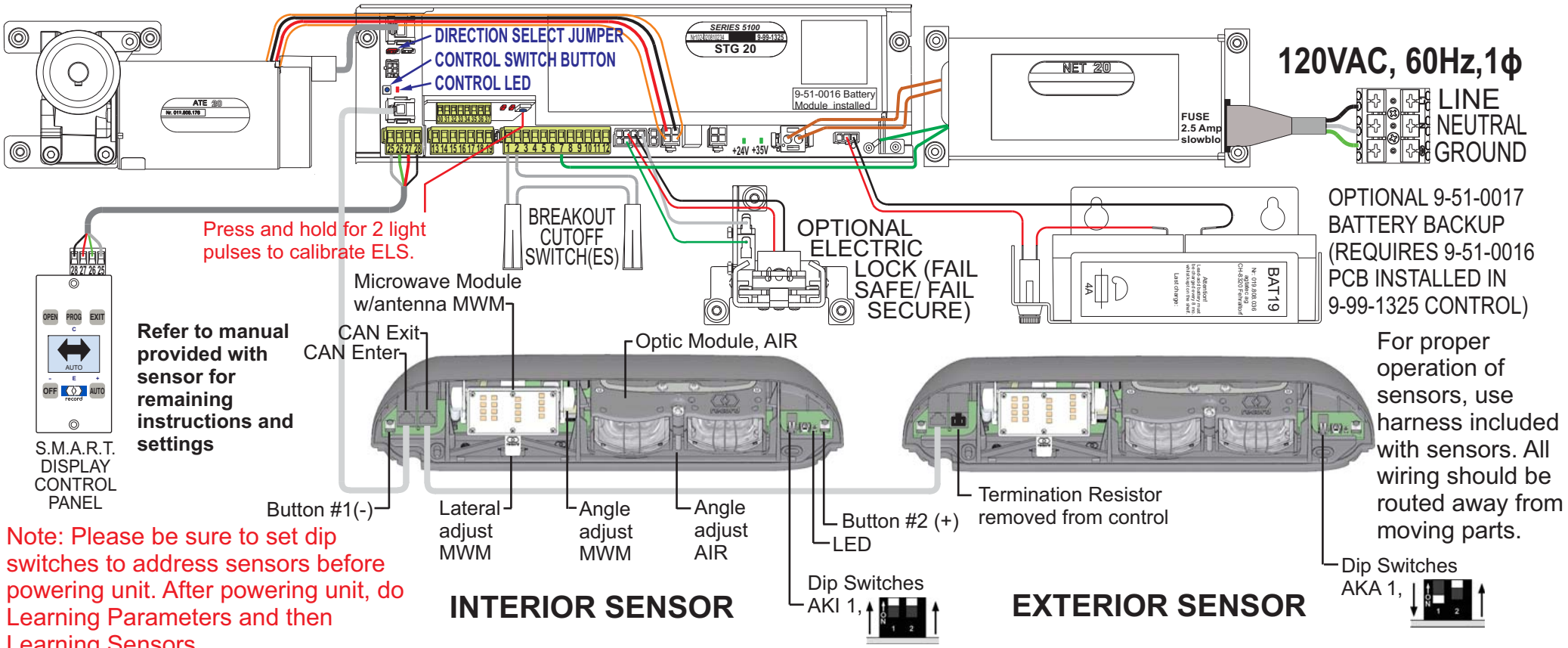
These are only recommended starting point settings; sensors must be set and adjusted to be ANSI A156.10 compliant.

THE FOLLOWING PARAMETERS MUST BE ENABLED WHEN AN ELECTRIC LOCK IS PRESENT:
CONFIGURE SYSTEM / LOCK TYPE / SELECT: FAIL SECURE or FAIL SAFE (BASED ON LOCK TO BE INSTALLED)
PARAM STG / LOCKING / LOCK FUNCTION / SELECT: NIGHT LOCKED, 1-WAY LOCKED, or ALWAYS LOCKED (BASED ON DESIRED FUNCTION)

WHEN THE BATTERY BACKUP IS PRESENT, AN ADDITIONAL BATTERY MONITOR BOARD (P/N 9-51-0016) IS INSTALLED IN THE DOOR CONTROLLER.
THE FOLLOWING PARAMETER MUST BE CHANGED:
CONFIGURE SYSTEM / BATTERY / SELECT: LEAD

1 EMERGENCY STOP
2 EMERGENCY STOP(+24V)
3 +24V
4 AUX00-IN
5 +24V
6 AUX01-IN
7 0V
8 AUX0 OUT - NO
9 AUX0 OUT - COM
10 AUX0 OUT - NC
11 SPECIAL ACTIVATION
12 SPECIAL ACTIVATION
13 +24V (SENSOR POWER)
14 INTERIOR SENSOR
15 0V (SENSOR POWER)
16 EXTERIOR SENSOR
17 +24V (SENSOR POWER)
18 AUX04-IN
19 +24V
25 CANBUS - DATA H
26 CANBUS - DATA L
27 +24V
28 0V
30 SAFETYBEAM - XMTR1 +(WHT)
31 SAFETYBEAM - XMTR1 - (BLK)
32 SAFETYBEAM - RCVR1 +(ORG)
33 SAFETYBEAM - RCVR1 - (BLK)
34 SAFETYBEAM - XMTR2 +(WHT)
35 SAFETYBEAM - XMTR2 - (BLK)
36 SAFETYBEAM - RCVR2 +(ORG)
37 SAFETYBEAM - RCVR2 - (BLK)

NOTE: THIS PRODUCT IS INTENDED FOR PERMA-NENT CONNECTION TO THE ELECTRICAL SUPPLY SYSTEM.



Note: Please be sure to set dip switches to address sensors before powering unit. After powering unit, do Learning Parameters and then Learning Sensors.

WIRING DIAGRAM Series 5100 System 20 with RIC290 CANBus Sensors

July 2016 BG