INDEX						
SHEET	DRAWING NO.	DRAWING TITLE	REV.	REV. DATE		
1	RLGL-001	INDEX	2.0	11/1/2015		
2	RLGL-002	PICTORIAL BOM	2.0	11/1/2015		
3	RLGL-003	ARRANGEMENT	2.0	11/1/2015		
4	RLGL-004	SENSOR LOCATION	2.0	11/1/2015		
5	RLGL-005	TUBE SENSOR LINE	2.0	11/1/2015		
6	RLGL-006	BODY SENSOR LINE	2.0	11/1/2015		
7	RLGL-007	SENSOR AND BRACKET ASSEMBLY	2.0	11/1/2015		
8	RLGL-008	SENSOR AND BRACKET ASSEMBLY	2.0	11/1/2015		
9	RLGL-009	LENS INSTALLATION	2.0	11/1/2015		
10	RLGL-010	INTERCONNECTION DIAGRAM	2.0	11/1/2015		
11	RLGL-011	UPPER J-BOX	2.0	11/1/2015		
12	RLGL-012	LOWER J-BOX	2.0	11/1/2015		
13	RLGL-013	CONTROL BOX	2.0	11/1/2015		
14	RLGL-014	PAUSE BUTTON	2.0	11/1/2015		
15	RLGL-015	RED/GREEN LIGHT	2.0	11/1/2015		
16	RLGL-016	ACCESSORIES	2.0	11/1/2015		
17	RLGL-017	SCHEMATIC	2.0	11/1/2015		
18	RLGL-018	SCHEMATIC	2.0	11/1/2015		
19	RLGL-019	SCHEMATIC	2.0	11/1/2015		
20	RLGL-020	SCHEMATIC	2.0	11/1/2015		

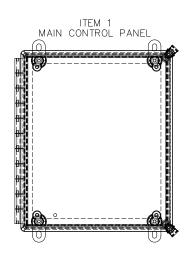
EXAMPLE OF LINE REFERENCES:

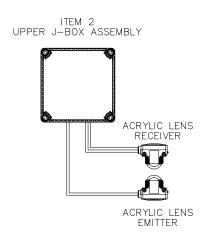


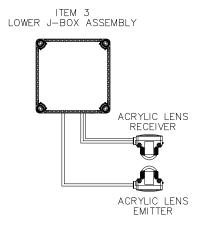


NUMBER AT BOTTOM
INDICATES LINE NUMBER

NOTES:		PRODUCT RED LIGHT GREEN LIGHT
20 11/1/2015 EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS REV. DATE DESCRIPTION	MS BY	DRAWN MS DATE 11/1/2015 SCALE REV. CHECKED DATE 12/1/2015 DATE 12/1/2015 DWG. NO. PLGL-001



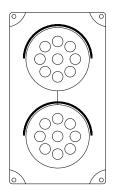








ITEM 5 RLGL SIGNAL HEAD ASSEMBLY

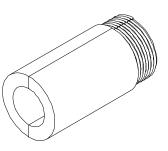


11/1/2015 EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS

DESCRIPTION



ITEM 7 SENSOR APERTURES



	PICTORIAL E	BILL OF MATERIAL		
ITEM	PART NUMBER	DESCRIPTION	QTY	
1	20001	MAIN CONTROL PANEL	1	
2	20013	UPPER J-BOX ASSEMBLY	1	
3	20014	LOWER J-BOX ASSEMBLY	1	
4	20015	PAUSE BUTTON ASSEMBLY	1	
5	20003	RLGL SIGNAL HEAD ASSEMBLY	1	
6	40002	SENSOR PAIR MOUNTING KIT	2	
7	10021	SENSOR APERTURES	4	

NOTES: PRODUCT

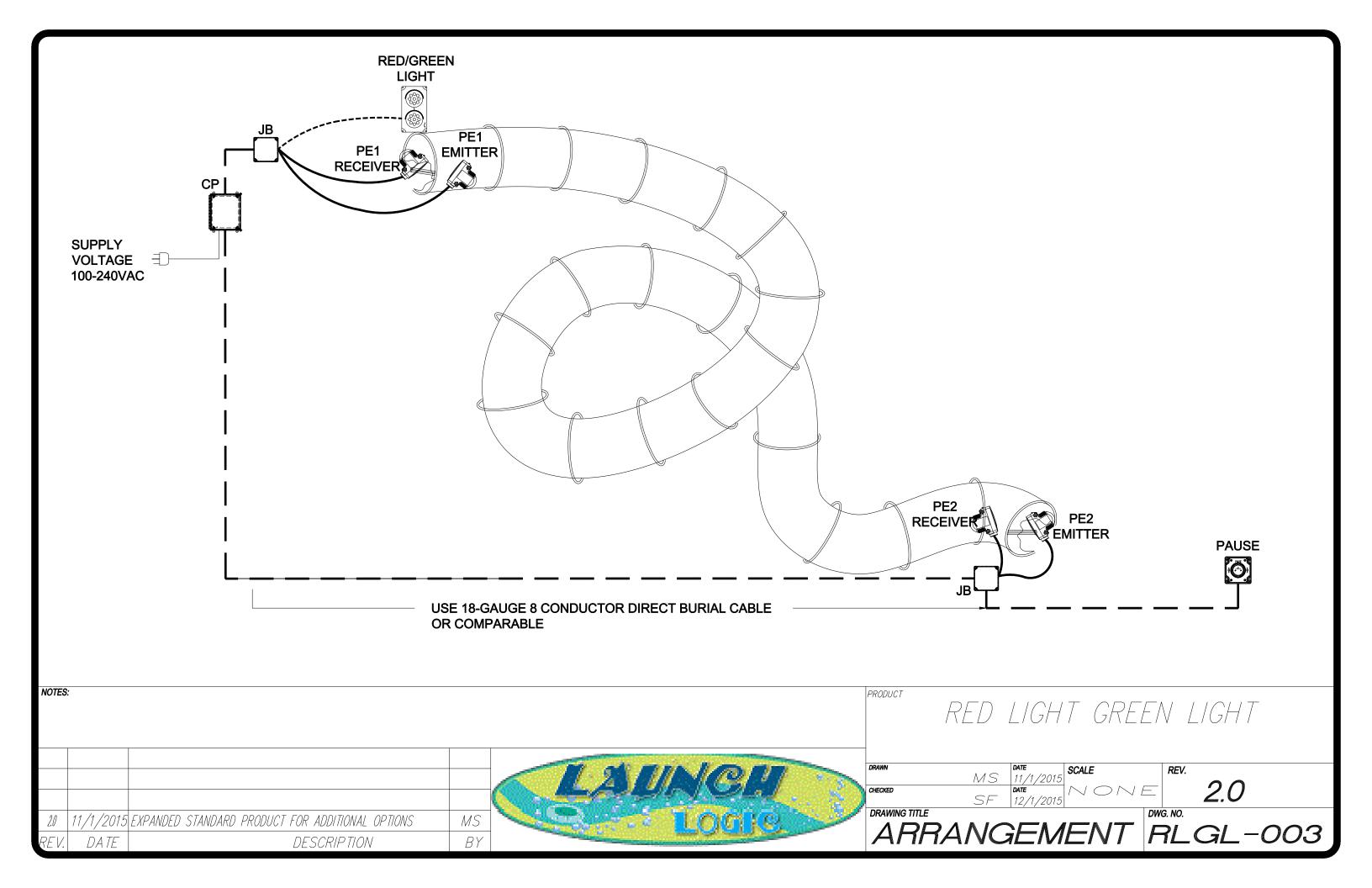
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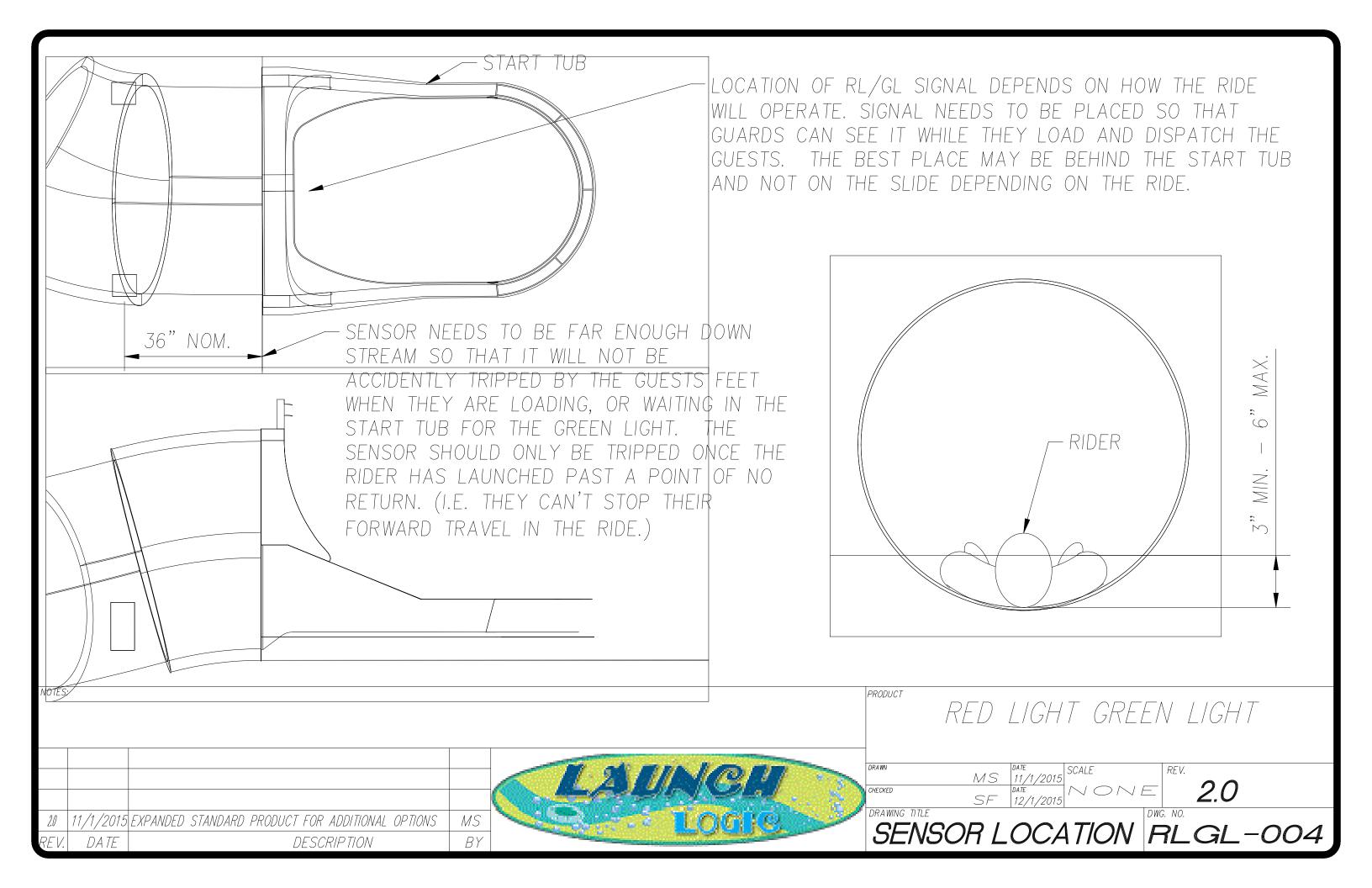
RED LIGHT GREEN LIGHT

MS 11/1/2015 DATE 12/1/2015 SCALE CHECKED

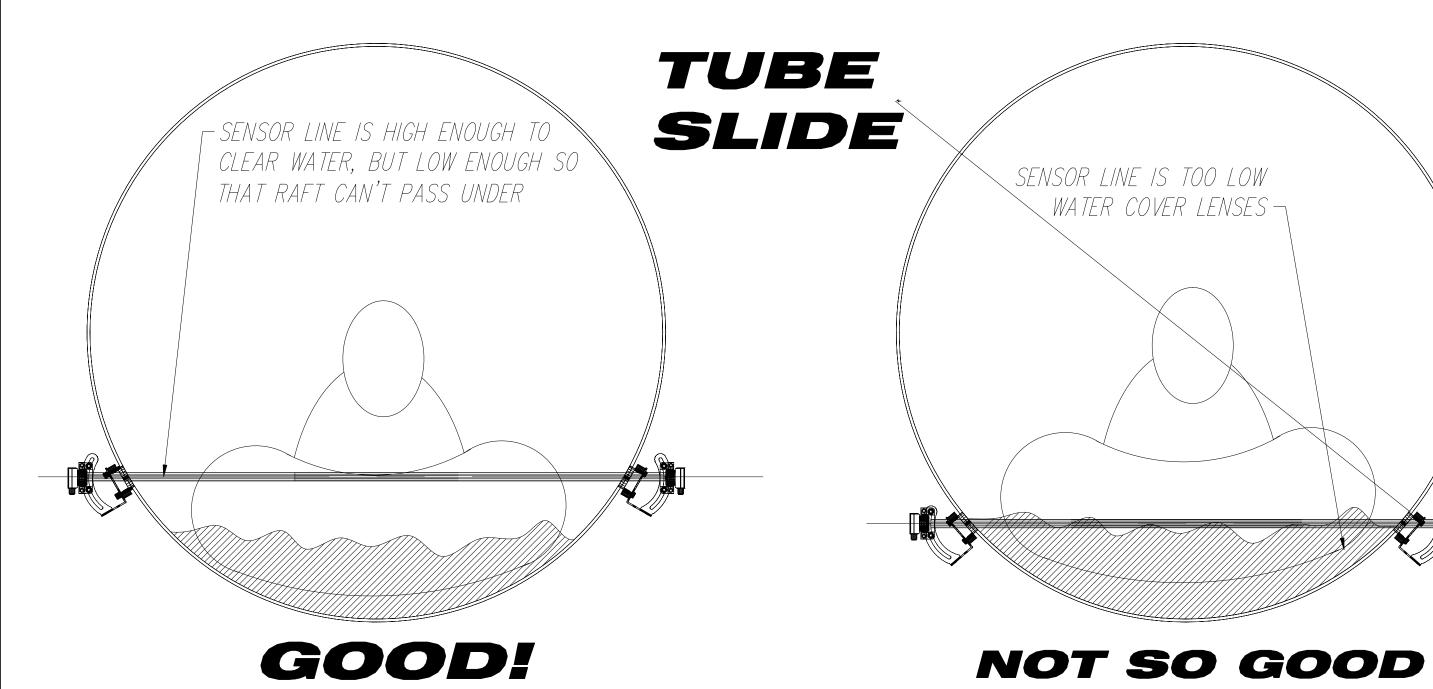
PICTORIAL BOM RLGL-002

2.0





DETERMINE OPTIMUM SENSOR LINE HEIGHT



NOTES	ì			ľ	PRODUCT
					DRAWN
					CHECKED
					DDAL/INC :
2.0	11/1/2015	EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS	MS	CITIE	DRAWING T

DESCRIPTION

RED LIGHT GREEN LIGHT

	DRAWN	115	DATE 11 /1 /2015	SCALE	REV.	
)	CHECKED	SF	DATE 12/1/2015	NONE		2.0

TUBE SENSOR LINE RLGL-005

DETERMINE OPTIMUM SENSOR LINE HEIGHT

SENSOR LINE IS LOW ENOUGH SO THAT—
RIDER CAN'T PASS UNDER, AND HIGH
ENOUGH TO CLEAR WATER. SOME WATER
OVER THE LENSE IS OK. RIDER NEEDS TO
FULLY BREAK BEAM WITH BODY.

ø3' REF ONLY

NDTES:

SUGGESTION ONLY! ACTUAL HEIGHT WILL VARY DEPENDING ON SLIDE DIAMETER.

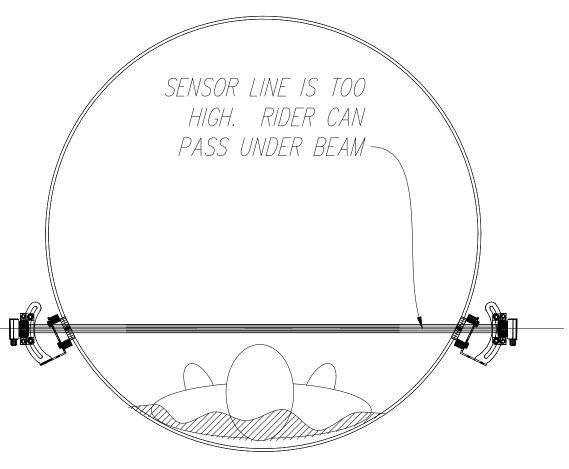
DRAW FULL SCALE CIRCLE REPRESENTING FLUME DIAMETER ON GROUND OR

CARDBOARD AND CHECK SENSOR RANGE OF MOVEMENT IN BRACKET PRIOR TO

DRILLING HOLES IN FIBERGLASS. BRACKET MUST BE MOUNTED SO THAT SENDER

AND RECEIVER CAN BE INLINE WHILE SHOOTING THROUGH CENTER OF LENS.





GOOD!

BAD!!

				1
2.0	11/1/2015	EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS	MS	1
REV.	DATE	DESCRIPTION	BY	

RED LIGHT GREEN LIGHT

DRAWN

MS 11/1/2015

CHECKED

SF 12/1/2015

SCALE

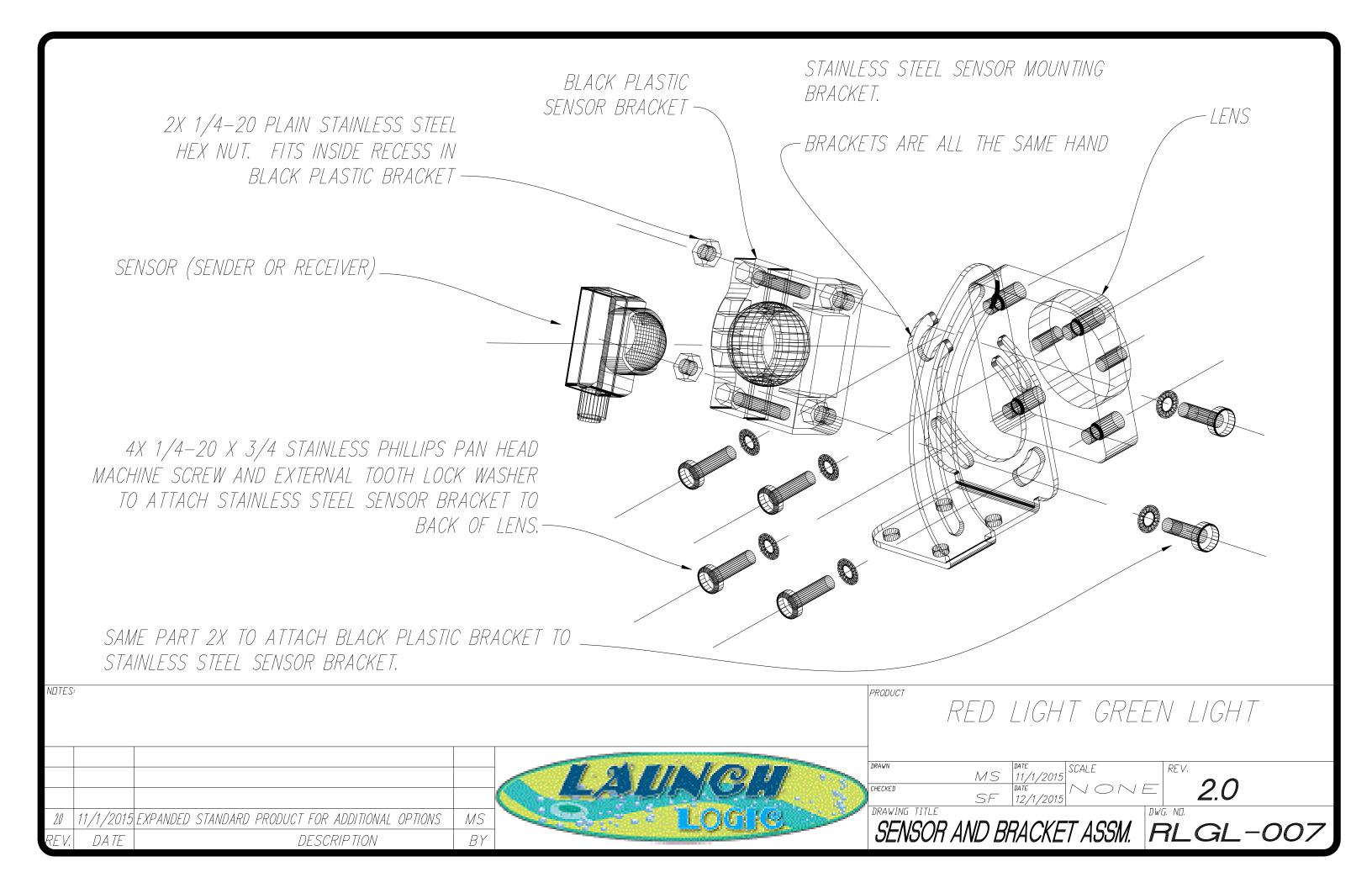
REV.

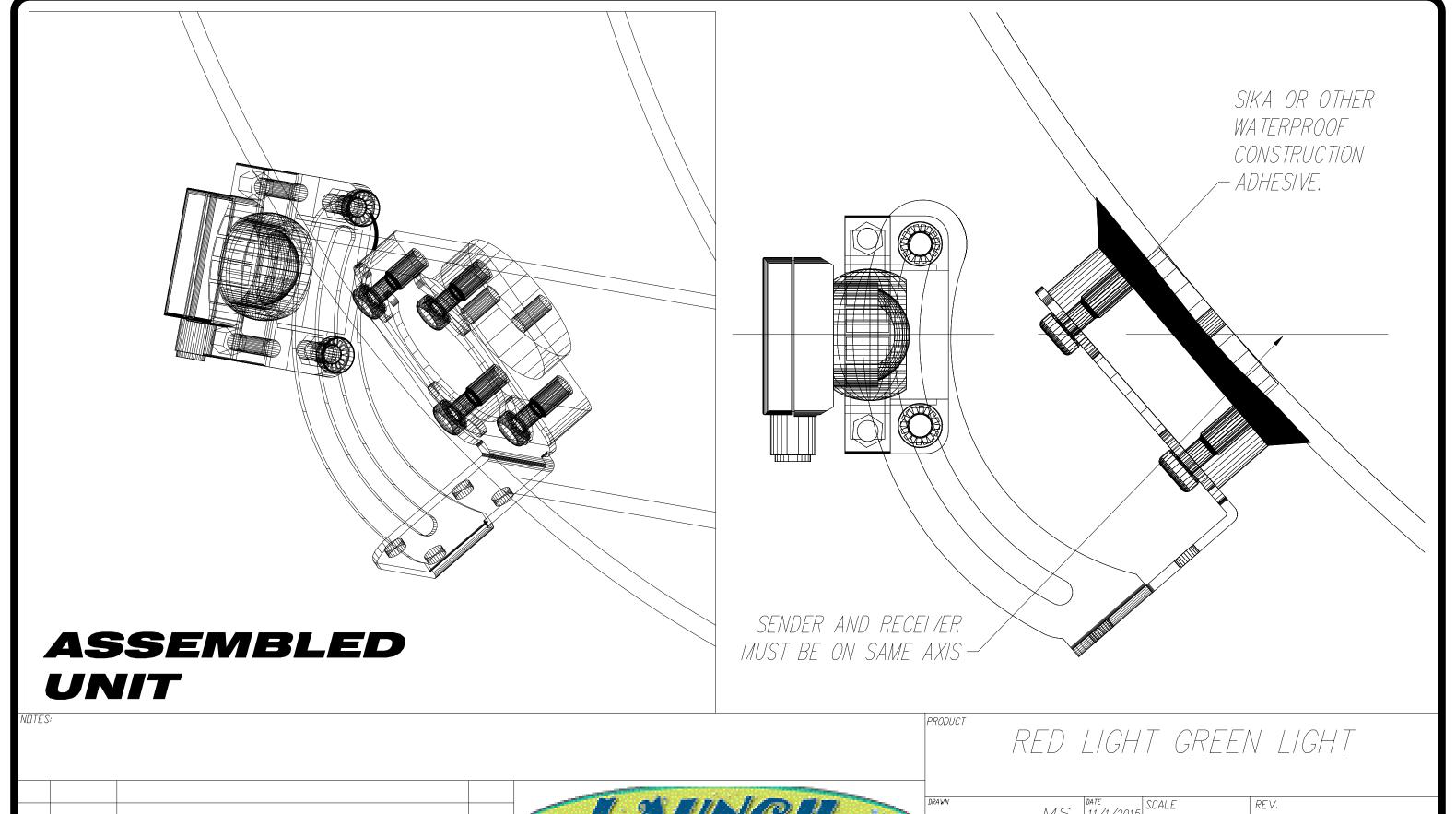
2.0

WING TITLE

PRODUCT

BODY SENSOR LINE RLGL-006





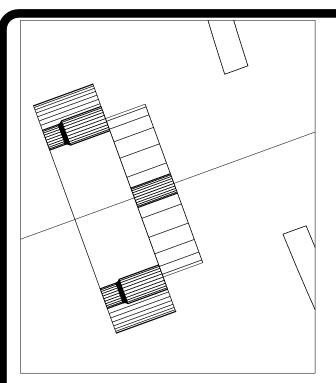
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MS 11/1/2015 SCALE

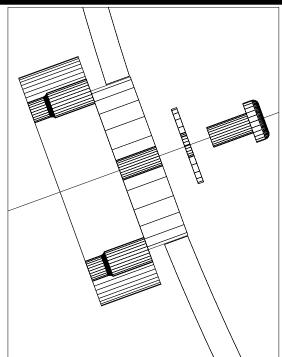
SF 12/1/2015 V C N E 2.0

SENSOR AND BRACKET ASSM. RLGL-008



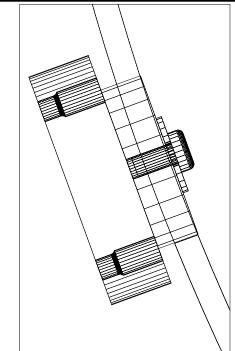
STEP 1

REMOVE PROTECTIVE PAPER FROM ROUND FACE OF LENS (SAVE FOR REINSTALLATION) & INSERT LENS INTO 2" DIA. HOLE.

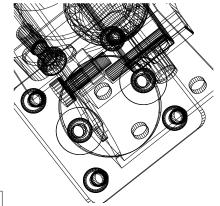


STEP 2

REINSTALL PROTECTIVE PAPER AND INSTALL TWO (2) ZINC PLATED 1/4-20 X 1/2 MACHINE SCREWS & FLAT WASHERS.



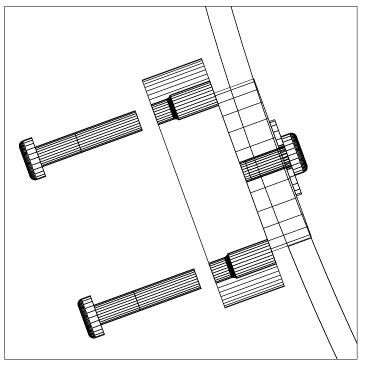
STEP 3



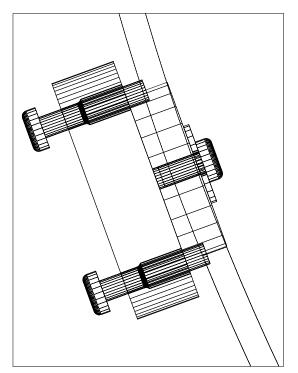
LIGHTLY TIGHTEN SCRFW INTO 1 FNS FACE OF LENS. DO NOT OVERTIGHTEN!

FILL AREA BETWEEN LENS BODY AND OUTSIDE DIAMETER OF GLASS WITH SIKAFLEX OR OTHER HIGH STRENGTH WATERPROOF CONSTRUCTION ADHESIVE. LET CURE, THEN PROCEED TO STEP 6.





STEP 4



INSTALL FOUR (4) 1/4-20 X 1 1/2" PLAIN STEEL TEMPORARY LEVELING/HOLDING SCREWS. FINGER TIGHTEN SCREWS SO THAT LENSES BODY IS PULLED BACK & FENDER WASHERS ARE TIGHT AGAINST THE INSIDE FACE OF THE GLASS. WARNING, DO NOT FACE UNTIL FLUSH WITH <u>OVERTIGHTEN</u> AS IT WILL STRIP OUT SCREWS IN FACE OF LENSES. PUT A VERY LIGHT COAT OF NEVER-SEZE OR GREASE ON SCREW THREADS FOR EASY REMOVAL AFTER BONDING ADHESIVE DRIES.

STEP 6

ONCE ADHESIVE CURES, REMOVE LONGER OUTSIDE LEVELING SCREWS & PROTECTIVE PAPER & INSTALL SENSORS & BRACKETS ACCORDING TO DRAWINGS LL-506 & LL-507. REMOVE INSIDE SCREWS & PAPER LAST.

VOTES:

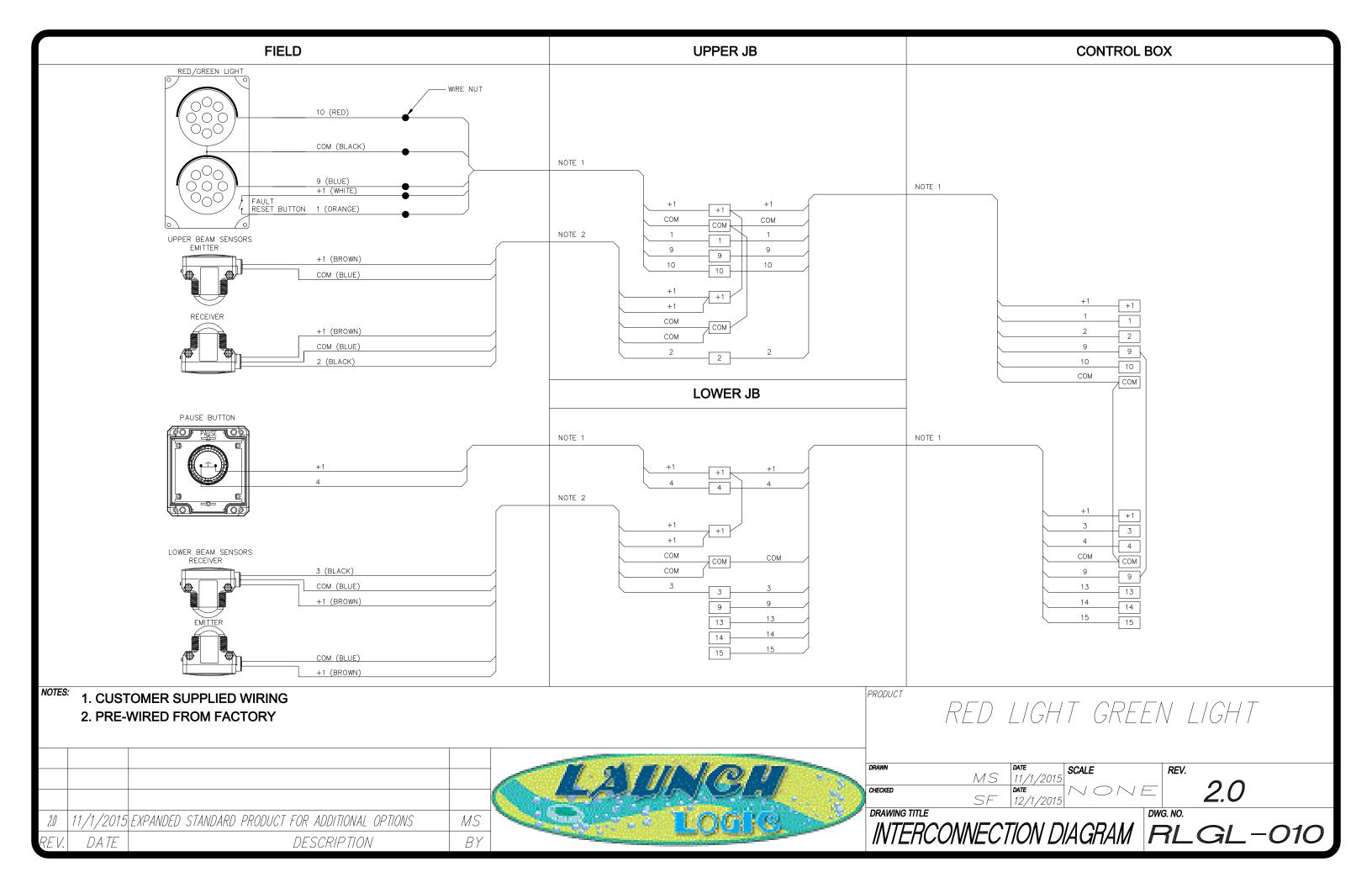
11/1/2015 EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS **DESCRIPTION**

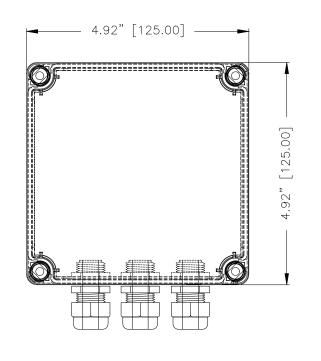


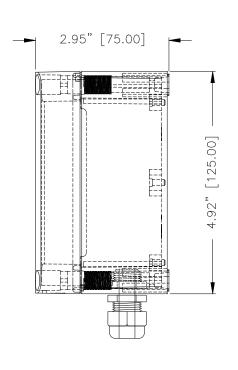
RFD LIGHT GRFFN LIGHT

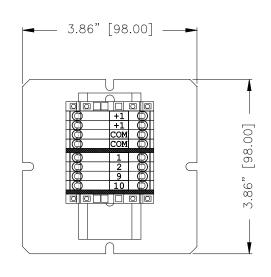
DRAWN	DATE S 11/1/2015	SCALE	REV.
CHECKED S/	DATE 12/1/2015	NONE	2.0

LENS INSTALLATION RLGL-009







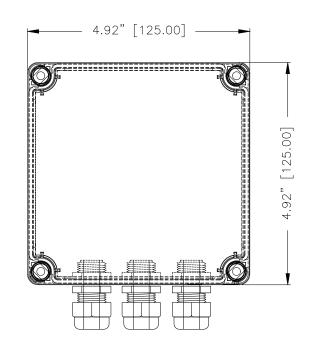


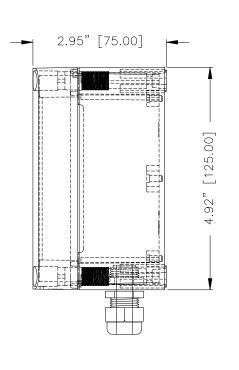
FRONT VIEW

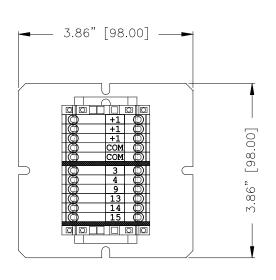
SIDE VIEW

BACK PANEL VIEW

NOTE	S:			PRODUCT RED LIGHT GREEN LIGHT
				DRAWN DATE SCALE REV. MS 11/1/2015 SF 12/1/2015 SF 12/1/2015 SF 2.0
2.0 REV	11/1/2015 EXPA '. DATE	NDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS DESCRIPTION	MS BY	DRAWING TITLE UPPER J-BOX PLGL-011





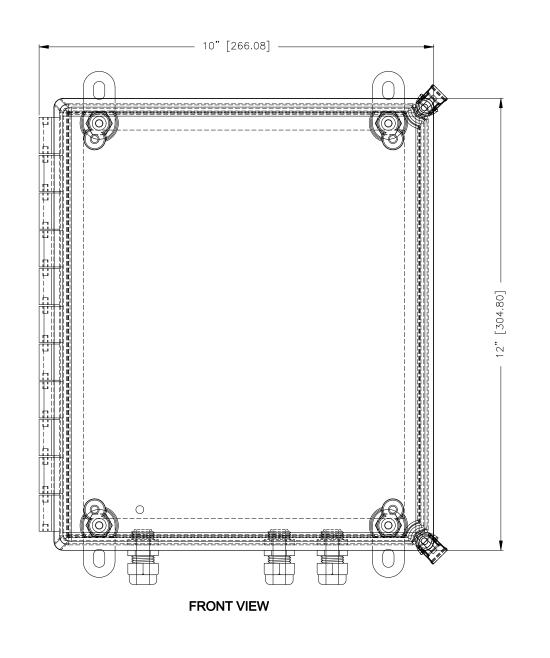


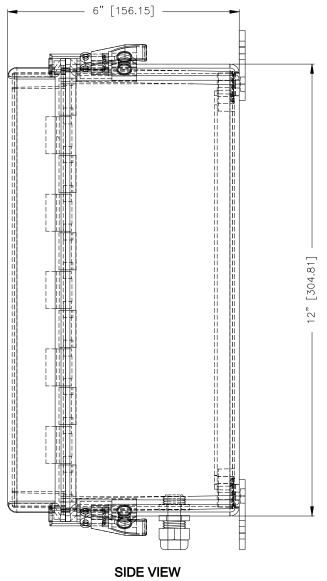
FRONT VIEW

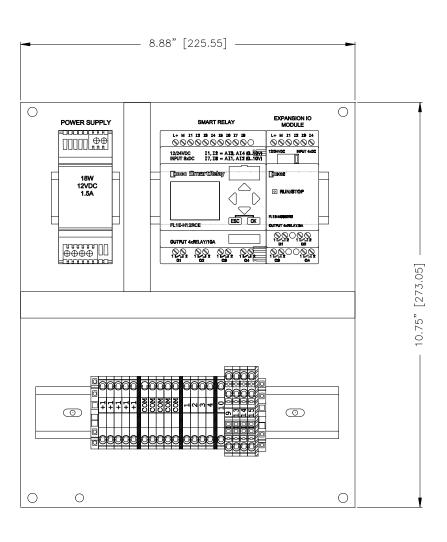
SIDE VIEW

BACK PANEL VIEW

NOTE	ES:		PRODUCT RED LIGHT GREEN LIGHT
		LAUNCH	DRAWN MS $11/1/2015$ $CHECKED$ SF $12/1/2015$ $CHECKED$ DATE $12/1/2015$ $CHECKED$ REV. 2.0
2.0 RFV	11/1/2015 EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS /. DATE DESCRIPTION	MS LOUIS	LOWER J-BOX RLGL-012







BACK PANEL VIEW

PRODUCT

11/1/2015 EXPANDED STANDARD PRODUCT FOR ADDITIONAL OPTIONS MS **DESCRIPTION**

NOTES:

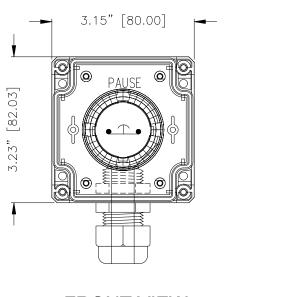


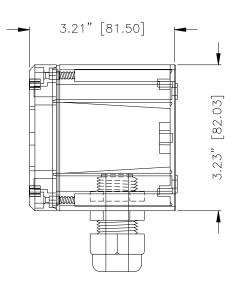
RED LIGHT GREEN LIGHT

MS 11/1/2015 SF 12/1/2015

| DATE | 12/1/2015 | C

CONTROL BOX PLGL-013

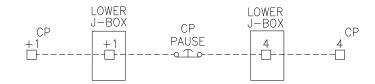




FRONT VIEW

SIDE VIEW

SCHEMATIC



WIRING DETAILS

