

# INSTALLATION MANUAL FOR PROTECTOR SERIES SHIELDS



IMPORTANT: PLEASE REVIEW THIS ENTIRE PUBLICATION BEFORE INSTALLING, OPERATING OR MAINTAINING THIS DEVICE.

# PROTECTOR SERIES SHIELDS OFFERING

Protector Series Shields

### **SHIELD OPTIONS:**



Octagonal Shield



Curved Shield



3 Sided Shield



2 Sided Shield



Flat Shield



Dual Flat Shield



Octagonal Shield without Handle

### **ARM OPTIONS:** (Head and base pivots available)



Single Pivot 3 Arms



Double Pivot 3 Arms



Single Pivot 2 Arms



Double Pivot 2 Arms



Direct Mount



Interlock



Non-Interlock

### **MOUNT OPTIONS:**



Left Mount



Center Mount



Right Mount

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# SECTION 1 — IN GENERAL

Protector Series Shields

# **Safety Precautions**

Danger is used to indicate the presence of a hazard which WILL cause SEVERE personal injury if the warning is ignored.



THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL A., BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY, AND CAREFULLY READ THE MESSAGE THAT FOLLOWS.

Efficient and safe machine operation depends on the development, implementation and enforcement of a safety program. This program requires, among other things, the proper selection of point-of-operation guards and safety devices for each particular job or operation, a thorough safety training program for all machine personnel, that includes instruction on the proper operation of the machine, the point-of-operation guards and safety devices on the machine, and a regularly scheduled inspection and maintenance program.

Rules and procedures covering each aspect of your safety program should be developed and published both in an operator's safety manual, as well as in prominent places throughout the plant and on each machine. Some rules or instructions which must be conveyed to your personnel and incorporated into your program include:

A DANGER Never place your hands or any part of your body in this machine.

**DANGER** Never operate this machine without proper eye, face and body protection.



**Never** operate this machine unless you are fully trained, instructed, and have read the instruction manual.



**Never** operate this machine if it is not working properly—stop operating and advise your supervisor immediately.



**Never** tamper with, rewire or bypass any control or component on this machine.

A company's safety program must involve everyone in the company, from top management to operators, since only as a group can any operational problems be identified and resolved. It is everyone's responsibility to implement and communicate the information and material contained in catalogs and instruction manuals to all persons involved in machine operation. If a language barrier or insufficient education would prevent a person from reading and understanding various literature available, it should be translated, read or interpreted to the person, with assurance that it is understood.



For maintenance and inspection always refer to the OEM's (Original Equipment Manufacturer's) maintenance manual or owner's manual. If you do not have an owner's manual, please contact the original equipment manufacturer.

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# **Safety References**

### **OSHA'S ACT AND FEDERAL REGULATIONS**

Since the enclosed equipment can never overcome a mechanical deficiency, defect or malfunction in the machine itself, OSHA (Occupational Safety and Health Administration) has established certain safety regulations that the employers (users) must comply with so that the machines used in their plants, factories or facilities are thoroughly inspected and are in first-class operating condition before any of the enclosed equipment is installed.

# 1. An Act - Public Law 91 - 596, 91st Congress, S. 2193, December 29, 1970

#### **Duties:**

Sec. 5. (a) Each employer —

- shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.
- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

# 2. OSHA's Code of Federal Regulations, Subpart 0, that an employer (user) must comply with include:

Section 1910.211 Definitions

Section 1910.212 (a) General Requirements for all Machines

Section 1910.219 (b)(1) Mechanical Power-Transmission Apparatus (Flywheel and Gear Covers)

### 3. OSHA's 29 Code of Federal Regulations, Subpart J 1910.147 The Control of Hazardous Energy (Lockout / Tagout)

### 4. OSHA's Publications

"General Industry Safety and Health Regulations Part 1910," Code of Federal Regulations, Subpart 0

"Concepts and Techniques of Machine Safeguarding," OSHA 3067, Revised 1992

These publications can be obtained by contacting:

US Department of Labor Occupational Safety and Health Administration Washington, DC 20210 (202) 219-5257

### **ANSI SAFETY STANDARDS FOR MACHINES**

The most complete safety standards for machine tools are published in the ANSI (American National Standards Institute) B11 series. The following is a list of each ANSI B11 Standard available at the printing of this publication.

- B11.1 Mechanical Power Presses
- B11.2 Hydraulic Presses
- B11.3 Power Press Brakes
- B11.4 Shears
- B11.5 Iron Workers
- B11.6 Lathes
- B11.7 Cold Headers and Cold Formers
- B11.8 Drilling, Milling and Boring
- B11.9 Grinding Machines
- B11.10 Sawing Machines
- B11.11 Gear Cutting Machines
- B11.12 Roll Forming and Roll Bending
- B11.13 Automatic Screw/Bar and Chucking
- B11.14 Coil Slitting Machines
- B11.15 Pipe, Tube and Shape Bending
- B11.16 Metal Powder Compacting Presses
- B11.17 Horizontal Hydraulic Extrusion Presses
- B11.18 Coil Processing System
- B11.19 Performance Requirements for Risk Reduction Measures: Safeguarding and Other Means of Reducing Risk
- B11.20 Safety Requirements for Manufacturing Systems/Cells
- B11.21 Lasers
- B11.22 CNC Turning Machines
- B11.23 Machining Centers
- B11.26 Functional Safety
- B11/TR1 Ergonomic Considerations for the Design, Installation and Use of Machine Tools
- B11/TR2 Mist Control
- B11/TR3 Hazard ID and Control
- B11/TR4 Control Reliability
- R15.06 Robotic Safeguarding

These standards can be purchased by contacting:

American National Standards Institute, Inc.

11 West 42nd Street

New York, New York 10036

(212) 642-4900

#### 0R

Association of Manufacturing Technology (AMT) 7901 Westpark Drive McLean, Virginia 22102-4269 (703) 827-5211

# NATIONAL SAFETY COUNCIL SAFETY MANUALS AND DATA SHEETS

Other good references for safety on machine tools are the National Safety Council's Safety Manuals and Data Sheets. These manuals and data sheets are written by various committees including the Power Press, Forging and Fabricating Executive Committee. The following publications are available for all types of machines:

#### **MANUALS**

Power Press Safety Manual - 4th Edition Safeguarding Concept Illustrations - 6th Edition Forging Safety Manual

### **DATA SHEETS**

Bench and Pedestal Grinding Wheel Operations 12304-0705

Boring Mills, Horizontal Metal 12304-0269

Boring Mills, Vertical 12304-0347

Coated Abrasives 12304-0452

Cold Shearing Billets and Bars in the Forging Industry 12304-0739

Degreasing (Liquid), Small Metal Parts 12304-0537

Dies, Setup and Removal of Forging Hammer

12304-0716

Drill Presses, Metalworking 12304-0335

Drills, Portable Reamer 12304-0497

Drop Hammers, Steam 12304-0720

Electrical Controls for Mechanical Power Presses

12304-0624

Forging Hammer Dies, Setup and Removal of

12304-0716

Forging Presses, Mechanical 12304-0728

Gear-Hobbing Machines 12304-0362

Handling Materials in the Forging Industry 12304-0551

Kick (Foot) Presses 12304-0363

Lathes, Engine 12304-0264

Milling Machines, Metalworking 12304-0364

Planers, Metal 12304-0383

Power Press (Mechanical) Point-of-Operation Safeguarding, Concepts of 12304-0710

Power Press Point-of-Operation Safeguarding:

Two-Hand Control and Two-Hand Tripping

Devices 12304-0714

Power Press Point-of-Operation Safeguarding: Type A and B Movable Barrier Devices 12304-0712

Power Press Point-of-Operation Safeguarding:

Point-of-Operation Guards 12304-0715

Power Press Point-of-Operation Safeguarding:

Presence Sensing Devices 12304-0711

Power Press Point-of-Operation Safeguarding:

Pullbacks and Restraint Devices 12304-0713

Power Presses (Mechanical), Inspection and

Maintenance of 12304-0603 Power Presses (Mechanical), Removing Pieceparts

from Dies in 12304-0534

Power Press, Setting Up and Removing Dies

12304-0211

Press Brakes 12304-0419

Robots 12304-0717

Saws, Metal (Cold Working) 12304-0584

Shapers, Metal 12304-0216

Shears, Alligator 12304-0213

Shears, Squaring, Metal 12304-0328

Upsetters, 12304-0721

These manuals and data sheets can be purchased by contacting:

National Safety Council 1121 Spring Lake Drive Itasca, IL 60143-3201 (708) 295-1121

For additional safety information and assistance in devising, implementing or revising your safety program, please contact the machine manufacturer, your state and local safety councils, insurance carriers, national trade associations and your state's occupational safety and health administration.

# **Warranty, Disclaimer and Limitation of Liability**

#### WARRANTY

Rockford Systems, LLC warrants that this product will be free from defects in material and workmanship for a period of 12 months from the date of shipment thereof. ROCKFORD SYSTEMS LLC'S OBLIGATION UNDER THIS WARRANTY IS EXPRESSLY AND EXCLUSIVELY LIMITED to repairing or replacing such products which are returned to it within the warranty period with shipping charges prepaid and which will be disclosed as defective upon examination by Rockford Systems, LLC This warranty will not apply to any product which will have been subject to misuse, negligence, accident, restriction and use not in accordance with Rockford Systems, LLC's instructions or which will have been altered or repaired by persons other than the authorized agent or employees of Rockford Systems, LLC Rockford Systems, LLC's warranties as to any component part is expressly limited to that of the manufacturer of the component part.

#### DISCLAIMER

The foregoing Warranty is made in lieu of all other warranties, expressed or implied, and of all other liabilities and obligations on the part of Rockford Systems, LLC, including any liability for negligence, strict liability, or otherwise, and any implied warranty of merchantability or fitness for a particular purpose is expressly disclaimed.

### LIMITATION OF LIABILITY

Under no circumstances, including any claim of negligence, strict liability, or otherwise, shall Rockford Systems, LLC be liable for any incidental or consequential damages, or any loss or damage resulting from a defect in the product of Rockford Systems, LLC

### **KSC046**



# SUGGESTED PROCEDURE FOR MOUNTING THIS SIGN

THE PURPOSE OF THIS SIGN IS TO ADEQUATELY WARN ALL PERSONNEL OF THE DANGER OF BODILY INJURY OR DEATH.

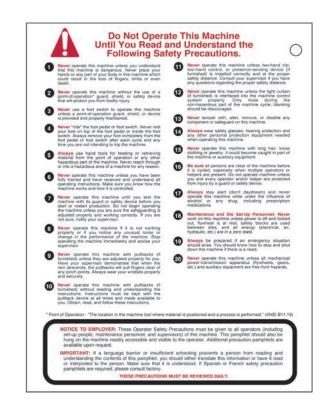
To accomplish this purpose - ALWAYS mount this sign in the following manner:

- (1) Clearly visible to the operator and other personnel
- (2) At or near eye level
- (3) PERMANENTLY fastened with bolts or rivets

NEVER OPERATE MACHINE WITHOUT THIS DANGER SIGN VISIBLE TO ALL PERSONNEL.

### **KSC048**





# Danger Sign(s) to be Mounted to the Machine to be KSC046 & KSC048



Accompanying this equipment are two polyethylene danger signs, Part Nos. KSC048 (11"  $\times$  8-1/2") and KSC046 (5"  $\times$  6").

If any danger sign becomes destroyed or unreadable, the sign must be replaced immediately. Contact factory for replacement danger sign(s).



Never operate this machine unless the danger sign(s) is in place.

# FOR REPLACEMENT SIGNS CALL, E-MAIL, OR FAX FACTORY OR USE ORDER FORM TOWARDS THE BACK OF THIS MANUAL.

Rockford Systems, LLC. 5795 Logistics Parkway Rockford, Illinois 61109 Toll Free: 1-800-922-7533 (USA only)

Phone: (815) 874-7891 Fax: (815) 874-6144

Web Site: www.rockfordsystems.com E-Mail: customerservice@rockfordsystems.com

# SECTION 2 — PROTECTOR SHIELD INSTALLATION

Protector Series Shields

# **Components in the System**

Individual packages may vary in contents. However, a packing list is always enclosed showing exactly what material was shipped on this order. Please check the components actually received against this packing list. Standard components of this system are as follows:

- Installation Manual
- Danger Signs
- Mounting/Pivot System
- Optional Mounting Brackets, if applicable
- Electrical Enclosure, if applicable

Other components that may be required for a particular application are:

- E-Stop Circuit
- Power Source (85-305VAC) or (24VDC)
- Motor Starter
- Disconnect Switch
- Foot Switch
- RSS00085 Accessory Bracket Kit

### **General Information**

PROTECTOR™ Series Shields, are high-quality, highly-featured line of robust machine safeguarding shields that maximize safety, improve productivity and reduce risk.

PROTECTOR Series Shields limit operators' contact with rotating parts, stop flying chips and debris, meet all applicable OSHA regulations and ANSI standards, and solve common cutting and turning machine guarding problems. They are designed to be permanently affixed to the machine, and are designed to swing and/or lift out of the way of the point of operation for part change-out and tooling changes/machine maintenance.

#### Standard Features of Protector Shields:

- Robust Construction
- Modular Design

### **Optional Features on Protector Shields:**

- Workspace Safety Lighting
- Machine Status Lighting
- Safety Interlocks & Monitoring\*

# **Preliminary Steps Before Installation**

Before proceeding with the installation of the enclosed equipment, the following preliminary steps should be considered:

- 1. Read and make sure you understand this entire Installation Manual.
- 2. Ensure that the machine is in first-class condition. Before starting any installation it is essential that the machine be thoroughly inspected. Make sure all mechanical components and collateral equipment are in first-class operating condition. Your inspection should be in accordance with the machine manufacturer's installation and maintenance instruction manual. If you have any doubts or questions concerning the condition of the machine, contact the machine manufacturer for assistance. Repair or replace all parts not operating properly before proceeding.



Inspection and maintenance programs must be established and implemented to keep machines in first-class condition. Programs must include thorough inspections of each machine on a weekly basis and records kept of these inspections. Any part of the machine that is worn, damaged or is not operating properly must immediately be replaced or repaired before the machine is used.

3. Verify that the machine is in first-class condition and operating properly. Shut off all power to the machine. Padlock the disconnecting means in the "off" position and do not actuate the machine again until the installation of all package components has been completed. Lockout/tagout energy isolation procedures must also be practiced and enforced for all energy sources when installing the enclosed equipment, setting up and maintaining the machine.

(Continued on next page.)

<sup>\*</sup> To achieve a Category 2 rating, a safety monitoring relay can be added as a redundant level of security, monitoring the integrity of the interlocking feature so that a removed or failed safety interlock will not permit unsafe operation of the machine.

# SECTION 2 — PROTECTOR SHIELD INSTALLATION

Protector Series Shields



The operator must be protected from all hazards. All applicable sections of OSHA Section 1910.212, General Machine Safequarding, and ANSI must be complied with on all machines where this equipment is installed.



Before starting any installation work. Run the machine in a normal operating sequence to determine proper operation. Do not install on a machine that does not function properly. When the machine is operating satisfactorily, shut off the power with the disconnect switch and do not operate the machine again until installation is complete. Use of a lockout device and padlock on the disconnect handle must be used during this period.



The maintenance and inspection section in this manual cannot be all-inclusive for maintaining machines. Always refer to the original machine manufacturer's maintenance manuals or owner's manual. If you do not have an owner's manual, please contact the original equipment manufacturer.

#### **INSTALLATION MANUAL**

Included with every shipment is an installation manual, danger sign(s), and electrical schematics. These publications must be available and fully understood before any retrofit installation begins. Please notify Rockford Systems, LLC immediately if there are any questions about the components received.

### DANGER SIGNS - PART NUMBERS KSC046 & KSC048

It is imperative that these signs be firmly attached to the machine in a location readily visible to all personnel. Suggested mounting instructions are shown on the reverse side of this sign. These signs must be the first thing mounted to prevent any possibility that it might be overlooked. If either sign becomes destroyed or unreadable, it must be replaced immediately. Contact factory for replacement and do not operate the machine until the danger signs are in place.

### **Mechanical Installation**

- 1. Remove all packing materials from the Shield and its Mounting Assembly.
- 2. Confirm the Shield is configured in the best possible mounting orientation (Right or Left-Hand) for the intended safeguarding application. If reversal is desired, please contact Rockford Systems Customer Service at 800-922-7533 or customerservice@rockfordsystems.com.
- Locate the Mounting Assembly on the machine as desired to allow placement of the Shield for providing the best protection and operation. (See Section 4 MECHANICAL ILLUSTRATIONS, Figures 2.1 thru 2.9 for various options)
   Note: Shield may be removed during this step to facilitate working with the Mounting Assembly)
- 4. Refer to Drawing KSL303 for mounting options using Optional Bracket Kit RSS00041, which is shipped loose.
- 5. Drill and tap holes for the Mounting Assembly, either on a suitable surface of the machine, or a dedicated, rigid piece of equipment located for the purpose of mounting the Shield. Make sure the holes do not interfere with gears, shafts, etc., and the assembly is located so it allows for proper operation of the machine and shield.
- 6. Bolt the Mounting Assembly to the mounting surface using 3/8 or 10mm bolts. (Bolts not furnished.)
- 7. Complete Mounting Assembly set-up and verify proper operation per drawing KSL304.
- 8. Reinstall Shield, if removed during Step 3, make final positional adjustments. In some instances, the Shield mounting yoke may be a partial tooth off from hanging as desired, in these cases the final angle may be fine-tuned by adjusting the bracketry as noted. (See Section 4 MECHANICAL ILLUSTRATIONS, Figures 2.10 & 2.11).
- 9. Verify complete, correct motion of Shield, and complete final tightening of all hardware.
- 10. Mounting Posts (See Figure 2.4, Item A) and Shield Mounting Hex Bar (See Figure 2.4, Item B) may be trimmed, if desired, after final adjustments are made and proper operation has been verified.
- 11. Complete installation by performing any wiring needed per the Electrical Installation section of this manual and verifying proper operation of the Protector Shield.

# SECTION 2 — PROTECTOR SHIELD INSTALLATION

Protector Series Shields

### OTHER OPTIONAL COMPONENTS (Not part of package unless specifically ordered)

### MAIN POWER DISCONNECT SWITCH

A main power disconnect switch may have been supplied in the package shipment. This switch is designed to disconnect the primary voltage to the machine and lock it out. Please refer to the enclosed wiring schematics for proper wiring of this switch.

All main power disconnect switches must be capable of being locked only in the OFF position.

If the machine already has a main power disconnect switch, it must be checked for the "locking off" and lockout feature. If this is not possible, or an electrical disconnect switch is not provided, then you must obtain and install a proper disconnect switch. (To purchase a disconnect switch, please contact Rockford Systems, LLC)

### MOTOR STARTER

A motor starter may have been supplied in this shipment. The main purpose of this starter is to drop out the main drive motor and power to the controls when a power failure occurs. The Protector Shield interlock, if equipped, must be tied into a motor starter. (For safety reasons do not run a separate line to the control. Please refer to the enclosed wiring schematics for proper wiring of this starter.)

It is important that the motor starter is engineered and constructed in such a way that:

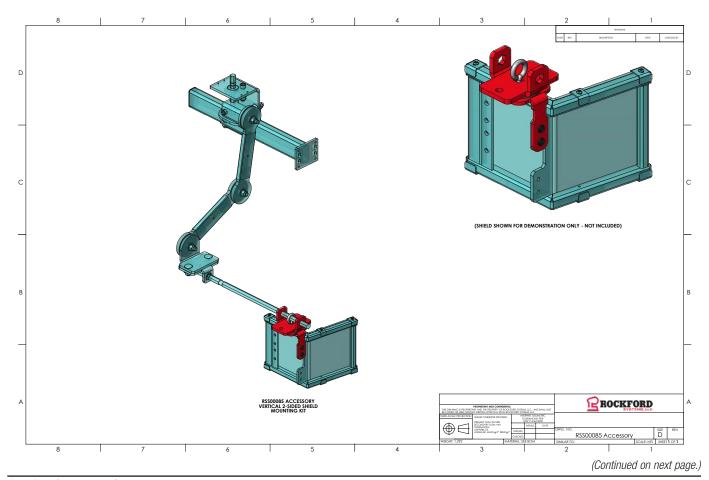
The motor start button shall be protected against accidental operation.

The motor starter shall incorporate a type of drive motor starter that will disconnect the drive motor from the power source in event of control voltage or power source failure, and require operation of the motor start button to restart the motor when voltage conditions are restored to normal.

These requirements are normally met by using a magnetic motor starter. This starter (if furnished) operates with a 120 VAC coil. Refer to the electrical schematics supplied for details on wiring the starter and associated motor start/stop push buttons.

### RSS00085 ACCESSORY VERTICAL BRACKET KIT FOR 2-SIDED SHIELDS

Particularly useful for applications like a band saw. Contact Rockford Systems to order.



Rockford Systems, LLC Call: 1-800-922-7533

## **Electrical Installation**

- 1. Begin the Electrical Installation by determining a suitable location to mount the enclosure on, or near, the machine.
- 2. Following the appropriate set of Wiring Diagrams (See Section 5 WIRING DIAGRAMS) for the equipment being installed, complete the electrical installation using industry standard best practices.
- 3. All wiring must be affixed permanently and securely, assuring that no wiring can be pinched during operation or caught up in moving parts. Special care must be taken to ensure that the Protector Shield can be rotated fully without the wiring being pinched or pulled.
- 4. Finalize the installation by verifying proper operation of the equipment before placing the machine back into service.

For technical specifications of the electrical components please visit our website via the following links:

https://www.rockfordsystems.com/wp-content/uploads/PROTECTOR-SERIES-SHIELDS\_Technical-Specifications\_JBox-Monitored.jpg https://www.rockfordsystems.com/wp-content/uploads/PROTECTOR-SERIES-SHIELDS\_Technical-Specifications\_JBox-Toggled.jpg https://www.rockfordsystems.com/wp-content/uploads/PROTECTOR-SERIES-SHIELDS\_Technical-Specifications\_JBox-Relay.jpg

# SECTION 3 — PROTECTOR SHIELD OPERATION

Protector Series Shields

# **Protector Shield Operation**

The Protector Shields product line is a very comprehensive array of products, available in many configurations, ranging from simple shields, to models providing auxiliary lighting, and also models featuring machine interlocks with available safety relay monitoring. The level of operational criteria will vary, dependent on which equipment is being installed.

#### SIMPLE SHIELD - NON-ELECTRICAL:

- To complete this installation, you will want to verify that the shield and mounting equipment are rigidly and permanently affixed to the machine.
- The shield should be positioned in a way that best provides protection required for safely operating the machine.
- The shield and the machine should be fully operational with no interference between them; any controls to run the machine should be accessible with the shield in-place.

### MANUAL LED OPERATION:

• To operate LED lighting in the shield, turn the power switch on the Junction Box to the On position.

NOTE: Lighting operation is manual, and independent of machine position. There is no LED color change, relative to position, on these models.

### PROTECTOR SHIELDS WITH LED/INTERLOCK SWITCH(S):

- · Shield must be in place for machine to run.
- White LEDs will operate any time power is supplied to the enclosure and the shield is in the run position.

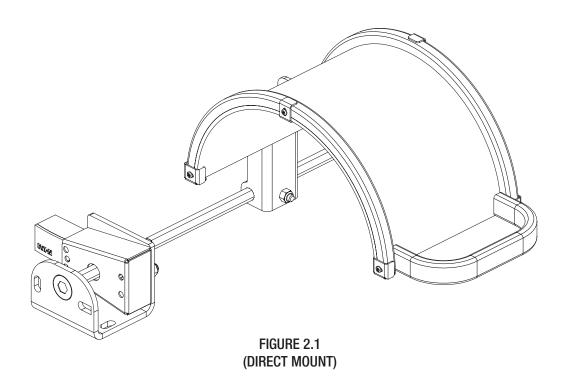
NOTE: If the power is coming from the machine, you would have to turn on the machine to turn on power to the LEDS, if the power comes from a source external to the machine, then the light will come on independent of the machine.

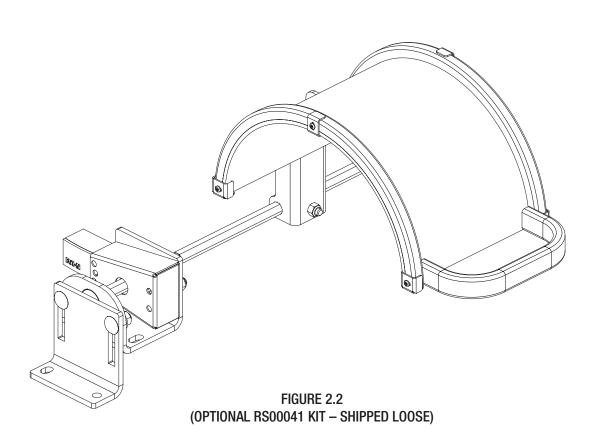
- Moving the shield away from the run position will stop the machine and change the LED color to Red.
- Models using multiple interlocks must stop the machine and change LED color if either switch is moved from the operating position.
- Any switch failure will prevent the machine from running.
- The machine must not restart automatically when the shield is returned to operating position. (the white LED's will turn back on before the reset is complete)

NOTE: Additional motor starter or anti-restart devices SHALL BE required when incorporating interlocking devices into the Protector Series Shields in order to ensure safe and compliant operation.

### PROTECTOR SHIELDS WITH LED/INTERLOCK SWITCH(S) AND MONITORING:

- All of the operation parameters are the same as above, with the addition of Safety Monitoring
- Achieves a Category 2 rating, a safety monitoring relay is added as a redundant level of security, monitoring the integrity of the interlocking feature so that a removed or failed safety interlock will not permit unsafe operation of the machine.





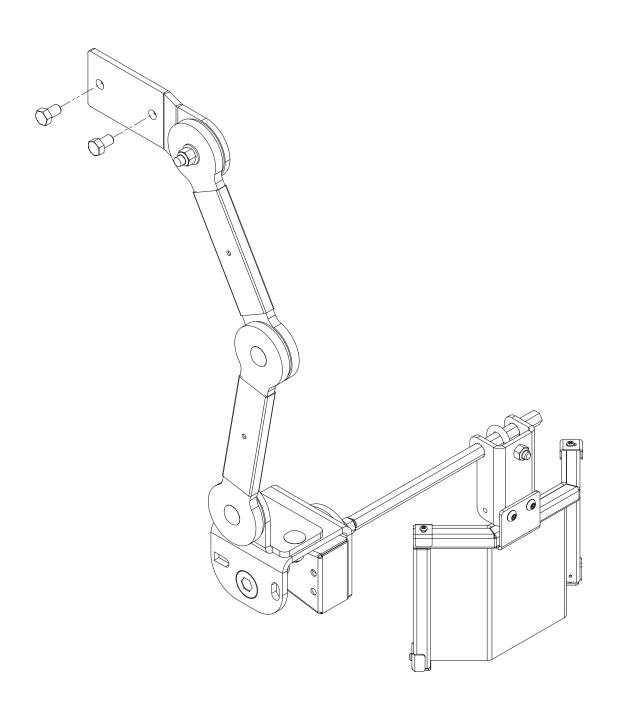


FIGURE 2.3 (DIRECT MOUNT ARM)

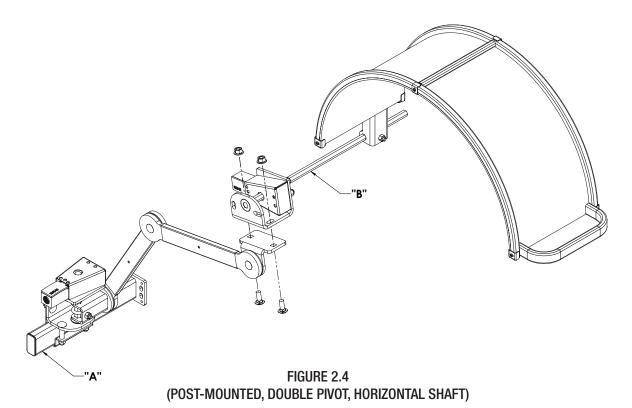


FIGURE 2.5 (POST-MOUNTED, DOUBLE PIVOT, VERTICAL SHAFT)

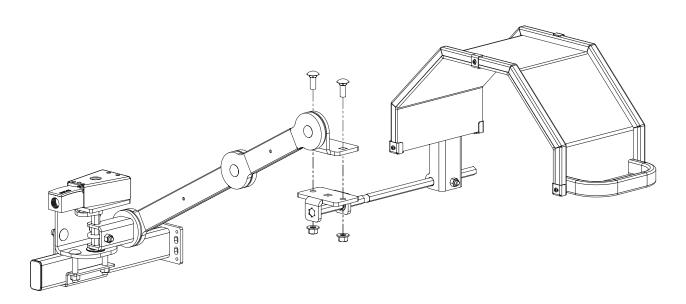


FIGURE 2.6 (POST-MOUNTED, SINGLE BASE PIVOT, HORIZONTAL SHAFT)

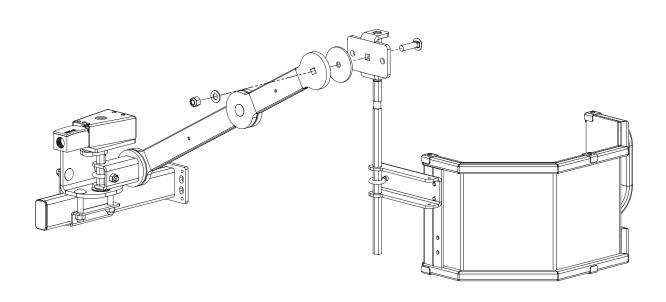
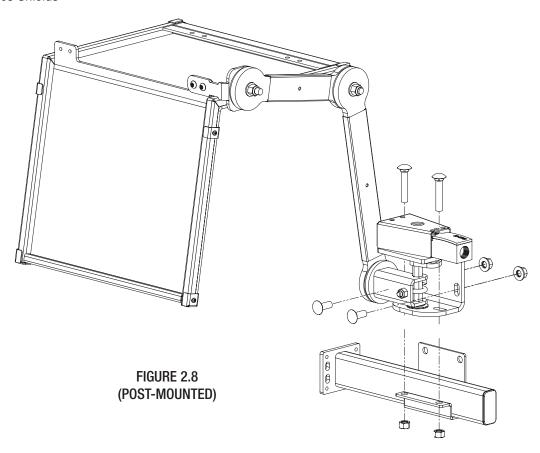
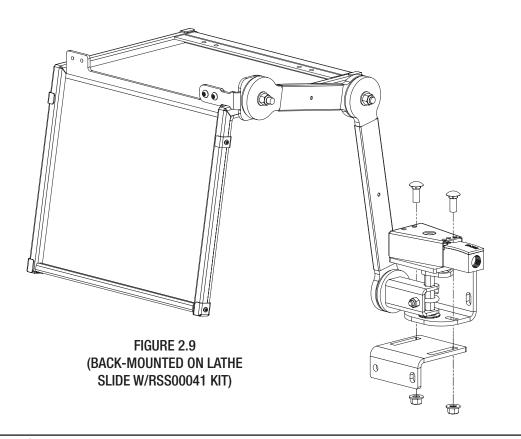
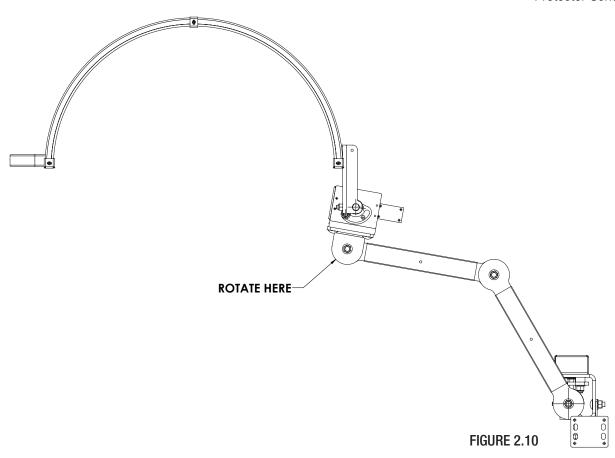
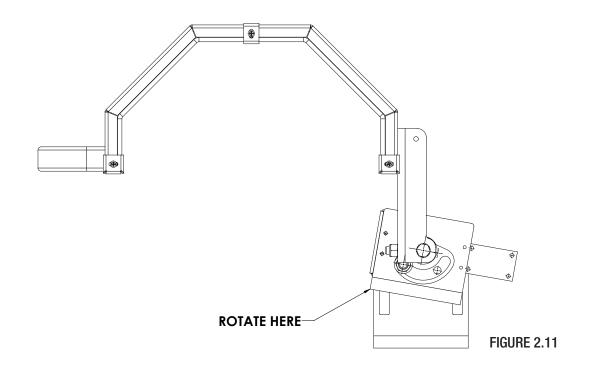


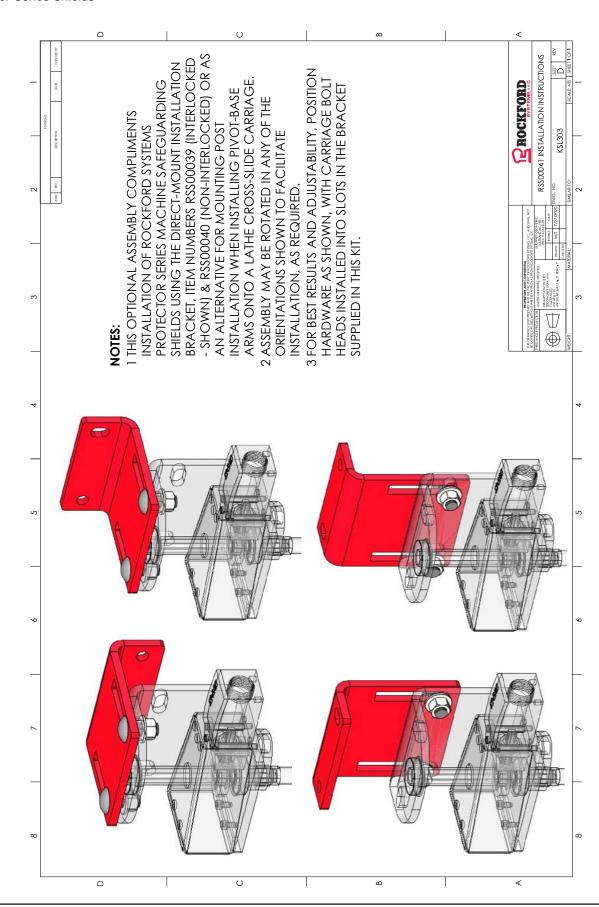
FIGURE 2.7 (POST-MOUNTED, SINGLE BASE PIVOT, VERTICAL SHAFT)

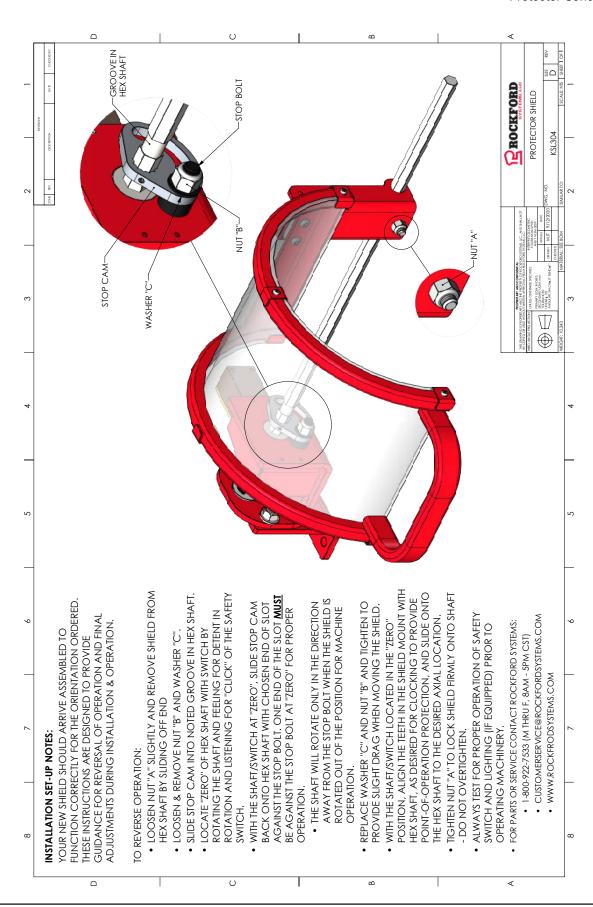












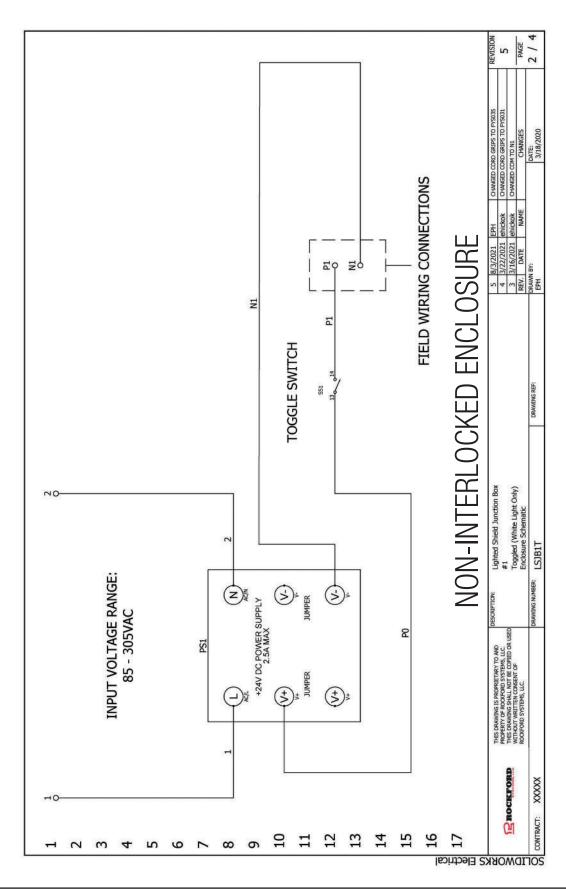
# SECTION 5 — WIRING DIAGRAMS

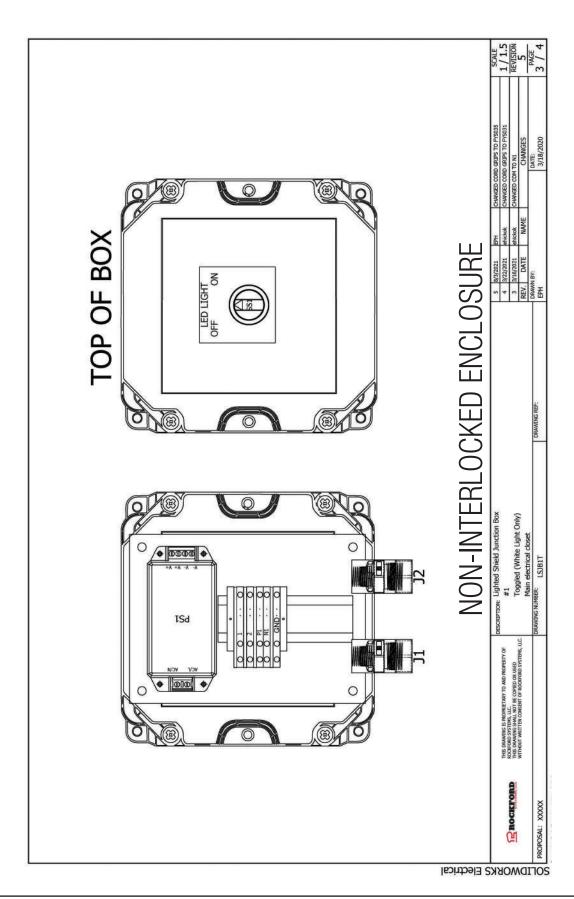
Protector Series Shields

Description of Protector Shield Product	Enclosure Type	Shield Diagram	Motor Starter Diagram
Basic Shield - No LED Lighting or Interlock	None	None	None
1 White/Red LED Light - 1 Interlock	LSJB1INTR	RSS00074	Top Generic Motor Starter
2 White/Red LED Lights - 1 Interlock	LSJB1INTR	RSS00075	Top Generic Motor Starter
1 White/Red LED Light - 2 Interlocks	LSJB1INTR	RSS00076	Top Generic Motor Starter
1 Interlock w/ LED Lighting & Monitoring	<u>LSJB1INTM</u>	RSS00076	Top Generic Motor Starter
2 White/Red LED Lights - 2 Interlocks	LSJB1INTR	RSS00077	Top Generic Motor Starter
2 Interlocks w/ LED Lighting & Monitoring	LSJB1INTM	RSS00077	Top Generic Motor Starter
1 White LED Light - No Interlock	LSJB1T	RSS00078	None
2 White LED Lights - No Interlock	LSJB1T	RSS00079	None
1 Interlock - No LED Lighting	None	RSS00080	Bottom Generic Motor Starter
2 Interlocks - No LED Lighting	None	RSS00081	Bottom Generic Motor Starter

Rockford Systems, LLC Call: 1-800-922-7533

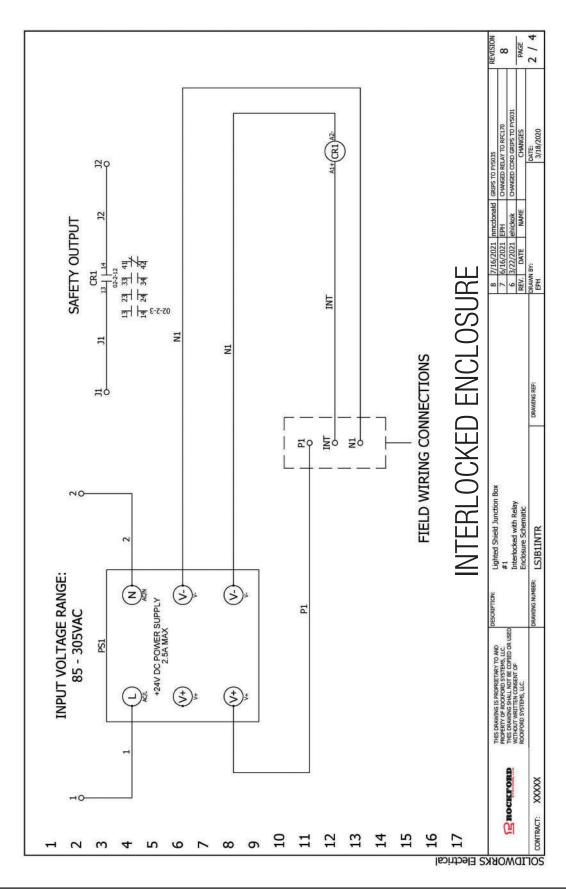
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5   80,20201   EPH   Demokratic Colored   C   C   C   C   C   C   C   C   C	-	Revision	Date	Created by	Description		Location	Function
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9         60 2021         EPH         Mole destricted does of the motion in CTV, Show Assembles)         LT         F7           0         0         0.02021         EPH         BII CV Maderials by Part Number (Add all brights in CTV, Show Assembles)         LT         F7           NO         NO         TO         TO         TO         TO         TO         TO         TO           MODER         MODER         MODER         TO         T	_	6	8/3/2021	ЕРН	Enclosure Schematic		П	Ε
0 0 69.021 EPH BILOTMeteris by Part Number (4cd of leveliths is GTV, Show Assentation) 1,1		6	8/3/2021	ЕРН	Main electrical closet		5	£
MON-INTERLOCKED ENCLOSURE  We demand the most transmission of processing the composition of the composition		0	8/3/2021	ЕРН	Bill Of Materials by Part Number (Add all lengths in QTY, Show As	ssemblies)	ы	F
This Ownwise Several Security of Modernia				NON-IN	TERLOCKED ENCL		HANGED CORD GRUPS TO P15035	A REVISE
DRAWING NUMBER: LSJB1INTM EPH 3/18/2020	ROCKFORD	THIS DRAWING IS PROPRIE ROCKFORD SYSTEMS, LLC. THIS DRAWING SHALL NOT WITHOUT WRITTEN COMES		MACHINE: Interlocked with Monitoring	DESCRIPTION: Lightness Shell Junction Box # give Shell Junction Box Interactioned with Monitoring Drawnings list	021 ehickok 021 ehickok ATE NAME	HANGED CORD GRIPS TO PYSG3.1 ENAMED COM TO N.1 CHANGES	6 PAG
				CUSTOMER: Rockford Systems, I			3/18/2020	1 /

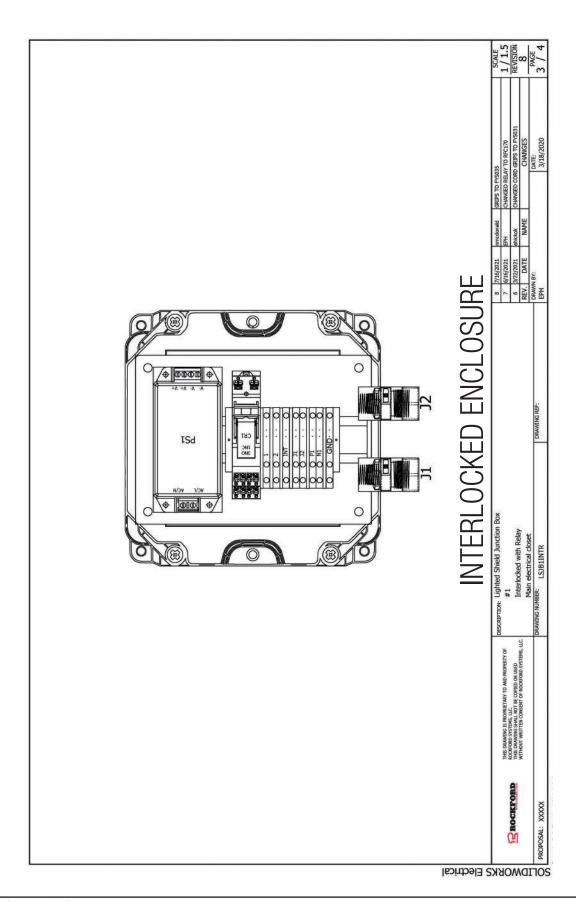




1         CCC084         4         X1 J, X1 Z, X1 MJ, X1 PI         Passtbrough Terminal block, Iz2 push-in connections, gray           2         CCC086         1         X1 GND         Ground Terminal block, green/yellow, 1x2 push-in connections           3         CCY058         4         L1         Samm DIN Rail Perforated           4         CCY117         2         X1         Terminal end stop, grey, clip-on, for DIN rails 35mm           5         CCY118         4         X1         Terminal end plate, grey           6         CTM500         1         SS1         Track, BLANK GRAY           7         FSK043         4         F1         440 PH PAN SCREW 1/2*           8         FSK063         4         F1         #10 x ½" phillips pan head aggressive thread zinc           10         KCD15         1         L1         INTERLOCKED SHIELD PANEL 5" X" WITH PRE DRILLED MOUNTING FOLES           11         KCD15         1         L1         Inniction Box, Screw Cover, PC, Molded Mounting Feet, 6 x 6 x 6           12         RYL152         1         L1         ACDC POWER SUPPLY 1 OUTPUT - 24V @ 2.5A - 60W - MOULE
CCY055 4 L1 CCY117 2 X1 CCY118 4 X1 CCY118 4 X1 CTN500 1 SS1 FSK043 4 F1 FSK063 4 F1 KCD115 1 L1 KCM047 1 L1 RYL152 1 PSI
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CCY118 2 X1  CCY188 4 X1  CTM500 1 SS1  FSK043 4 F1  FSK063 4 F1  KCD15 2 J1, J2  KCD15 1 L1  KCM047 1 L1  RYL152 1 PSI
CCY18 4 X1 CTM500 1 SS1 FSK043 4 F1 FSK063 4 F1 FY5035 2 J1, J2 KCD115 1 L1 KCM047 1 L1 RYL152 1 PS1
CTMS00         1         SS1           FSK043         4         F1           FSK063         4         F1           FYS035         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RYLLS2         1         PS1
FSK043 4 F1 FSK063 4 F1 FXS035 2 J1, J2 KCD115 1 L1 KCM047 1 L1 RYL152 1 PS1
FSK063         4         F1           FYS035         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RYL152         1         PS1
FY5035         2         JI, JI2           KCD115         1         L1           KCM047         1         L1           RYL152         1         PS1
KCD115         1         L1           KCM047         1         L1           RYL152         1         PS1
KCM047 1 L1 RYL152 1 PS1
RYL152 1 PS1
13 TSSPST 1 SS1 Changeover switch, With thumb-grip, maintained, 1 N/O, 2 positions, Bezel: titanium

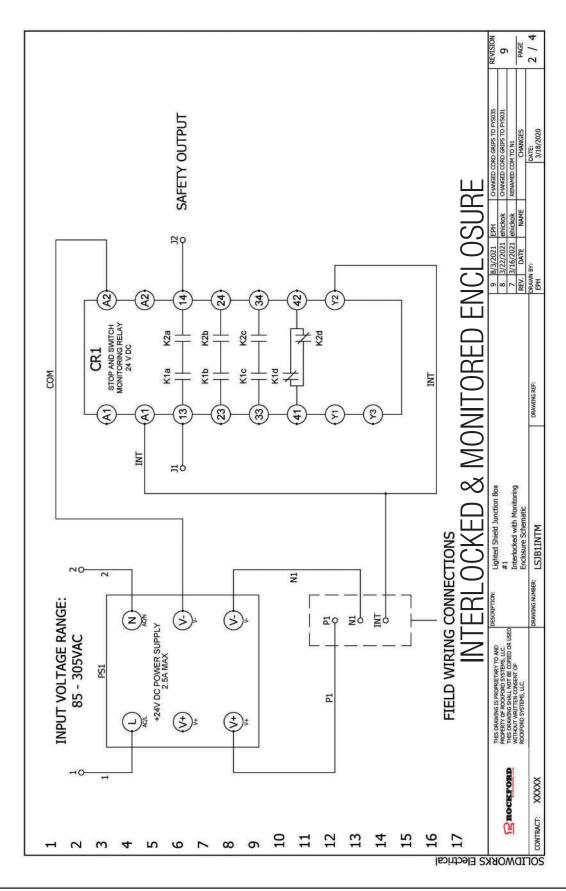
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Page Number	Revision	Date	Created by	Description		Location	Function
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05	8	7/16/2021	nmcdonald	Enclosure Schematic	S	5	Ħ
03	80	7/16/2021	nmcdonald	Main electrical closet		2	E
904	0	8/3/2021	ЕРН	Bill Of Materials by Part Number (Add all lengths in QTY, Show Assemblies)	emblies)	П	Н
			H N	INTERLOCKED ENCLOSURE			
ROCKFORD	0.000000000	THIS GRAWING SE PROPRIETARY TO AND PROPERTY OF ROCYCIOGO SYSTEMS, I.C. THIS GRAWING SHALL MOT BE COPIED OR USED. WITHOUT WAITTEN COMESMY OF ROCKORD SYSTEMS, I.C.	MACHINE: Interlocked with Relay	DESCRIPTION: Lighted Shield Junction Box # Intentioded with Relay Pravings list.	021 nmcdonald 021 EPH 021 ehickok VTE NAME	GRIPS TO PYS035 CHANGED RELAY TO RYC170 CHANGED CORD GRIPS TO FYS031 CHANGES	REVISION 8
PROPOSAL: XXXXX			CUSTOMER: Rockford Systems, LLC	Asser	DRAWN BY: EPH	3/18/2020	1 / 4

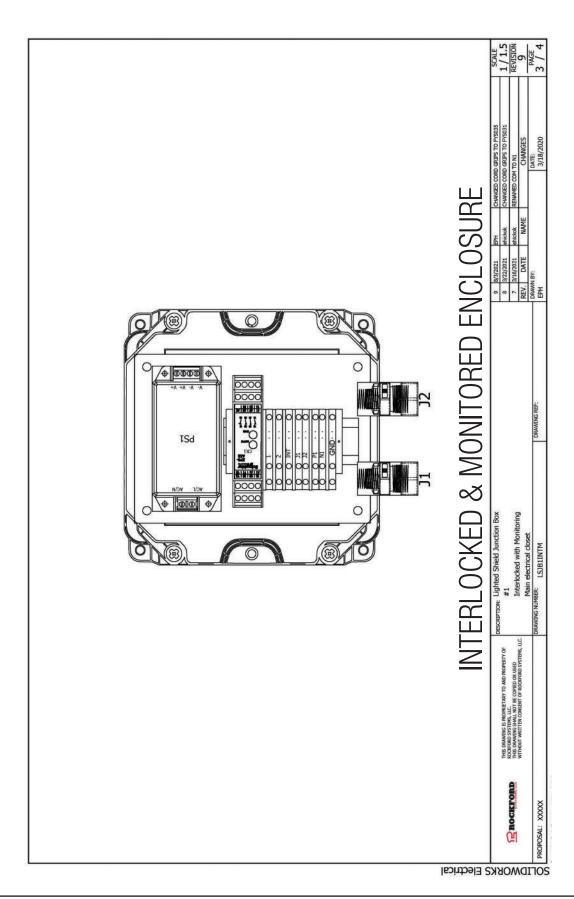




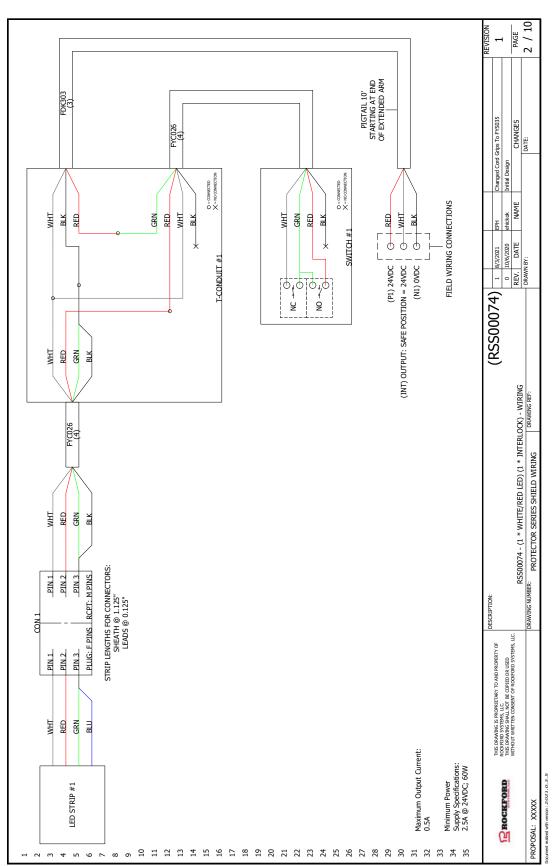
1         CCC084         7         X1 1, X1 2, X1 INT, X1 J2, X1 N1, X1 P1         Passthrough Terminal block, LX2 push-in connections, gray           2         CCC086         1         X1 GND         Somm DIN Rail Perforated           4         CCY117         2         X1         Terminal end Stop, greey, clip-on, for DIN rails 35mm           5         CCY117         2         X1         Terminal end stop, grey, clip-on, for DIN rails 35mm           6         F3K043         4         F1         440 PH PAN SCRW 1/2"           7         F3K043         4         F1         440 PH PAN SCRW 1/2"           8         FY5035         2         J1, J2         Cord grip, 1/2" NPT, Pastic, Gray, Range: 0.157-0.354, UL LISTED           10         KCM047         1         L1         INTRACOCED SHIELD PANEL S" "WITH PRE DRILLED MOUNTING HOLES           11         KCM047         1         L1         Jn. Action Box, Screw Cover, PV, Molded Mounting Feet, 6 x 6 x 6           12         RRL150         1         CRI         Action Power Super, PV, Molded Mounting Feet, 6 x 6 x 6           11         KRL150         1         CRI         Action Power PV, Molded Mounting Feet, 6 x 6 x 6	ItemNo	raft Number	ber Quantity	orky	Reference Designator	Description
CCC086 1 X1 GND CCY117 2 X1 CCY118 6 X1 CCY118 6 X1 FSK043 4 F1 FSK063 4 F1 KCD115 1 L1 KCM047 1 L1 RFC170 1 GR1 RFC170 1 GR1	н	CCC084	(A)		INT, X1 31, X1 32, X1 N1, X1 P1	Passthrough Terminal block, 1x2 push-in connections, gray
CCY05S         4.3         L1           CCY117         2         X1           CCY118         6         X1           FSK043         4         F1           FSK063         4         F1           FYG03S         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RFC170         1         GR1           RYL152         1         PS1	2	980000			8	Ground Terminal block, green/yellow, 1x2 push-in connections
CCY117         2         X1           CCY118         6         X1           FSK043         4         F1           FSK063         4         F1           FYS035         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RFC170         1         GR1           RYL152         1         PS1	33	CCY055		-		35mm DIN Rail Perforated
CCY118         6         X1           FSK043         4         F1           FSK063         4         F1           FYS035         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RFC170         1         CR1           RFL152         1         PS1	4	CCY117				Terminal end stop, grey, clip-on, for DIN rails 35mm
FSK043 4 F1 FSK063 4 F1 FYS035 2 J1, J2 KCD115 1 L1 KCM047 1 L1 RFC170 1 GR1 RYL152 1 PS1	2	CCY118	- 20			Terminal end plate, grey
F9X063 4 F1 FYS035 2 J1, J2 KCD115 1 L1 KCM047 1 L1 RFC170 1 GR1 RYLIS2 1 PS1	9	FSK043				4-40 PH PAN SCREW 1/2"
FYS035         2         JI, JI2           KCD115         1         L1           KCM047         1         L1           RFC170         1         GR1           RYL152         1         PS1	7	FSK063				$\#10 \times 16$ " phillips pan head aggressive thread zinc
KCD115         1         L1           KCM047         1         L1           RFC170         1         GR1           RYLI52         1         PS1	80	FYS035	20000			Cord grip, 1/2" NPT, Plastic, Gray, Range: 0.157-0.354, UL LISTED
KCM047         1         L1           RFC170         1         GR1           RYLIS2         1         PS1	6	KCD115		2001		INTERLOCKED SHIELD PANEL 5" X 7" WITH PRE DRILLED MOUNTING HOLES
RFC170         1         CR1           RYLIS2         1         PS1	10	KCM047	34,336			Junction Box, Screw Cover, PVC, Molded Mounting Feet, 6 x 6 x 6
RYLI52 1 PS1	11	RFC170	13000			FORCE GUIDED RELAY & SOCKET, 3NO/1NC, 24V DC
	12	RYL152				AC/DC POWER SUPPLY - 1 OUTPUT - 24V @ 2.5A - 60W - MODULE
1000 1000 1000 1000 1000 1000 1000 100	ĊI		THIS DRAWING IS PROPRIETARY TO CHEORD SYSTEMS, LLC. THIS DRAWING SHALL NOT BE COP WITHOUT WRITTEN CONSENT OF R	O AND PROPERTY OF TED OR USED OCKFORD SYSTEMS, L	DESCRIPTION:	8 7/16/2021 innecdonalid GRUPS TO PF933 7 6/16/2021 EPH GHANGED RBLAI 6 3/22/2021 enholos GHANGED CORD DEV DATE MAME
## Lighted Shield Junction Box				8	Bill Of Materials by Part N	DRAWN BY.
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Revision         Date         Created by           0         8/3/2021         EPH           9         8/3/2021         EPH           0         8/3/2021         EPH	Drawings list Enclosure Schematic Main electrical closet Bill Of Materials by Part Number (Add all lengths in QTY, Show Assemblies)	Location Location	F1 F
8/3/2021 8/3/2021 8/3/2021	Drawings list Enclosure Schematic Main electrical closet Bill Of Materials by Part Number (Add all lengths in QTV. Show Assemblies)	2 2 5 5	
8/3/2021	Enclosure Schematic  Main electrical closet  Bill Of Materials by Part Number (Add all lengths in QTY, Show Assemblies)	5 5 5	
8/3/2021	Main electrical closet Bill Of Materials by Part Number (Add all lengths in QTV, Show Assemblies)	5 5	E E
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THE PROCESS OF THE DAWNING SHALL WITH RE COPED OR USED. WITHOUT WAITHS COMEST OF ROCKOME SYSTEMS, LLC.	# 1 Interholded with Monitoring Crewnings list	3/16/2021   ohickook   RENAMED COM TO N1	PAGE 1 / 4
CUSTOMER: Rockford Systems, LLC	DRAWING NUMBER: LSJB1INTM		+





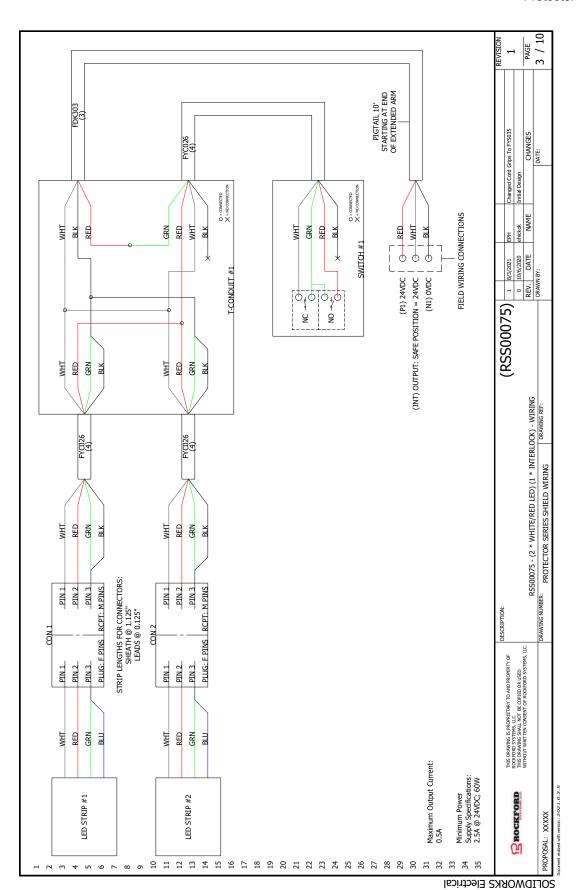
1         CCC084         7         X1 1, X1 2, X1 INT, X1 32, X1 N1, X1 PB         Passthrough Terminal block, paceh/yellow, 1x2 push-in connections           2         CCC086         1         X1 GND         Ground Terminal block, green/yellow, 1x2 push-in connections         Ground Terminal block green/yellow, 1x2 push-in connections           4         CCY015         2         X1         Terminal end plate, grey	1 2 2	CCC084		2			
CCC086 1 X1 GND CC7055 4 L1 CC7117 2 X1 CC7118 6 X1 FSK043 4 F1 FSK063 4 F1 FX0635 2 J1, J2 KCD115 1 L1 KCM047 1 L1 RY152 1 PS1	2 6	980000			INT, X1 31, X1 32, X1 N1, X1 P1	Passthrough Terminal block, 1x2 push-in connections, gray	
CCY117 2 X1  CCY118 6 X1  ESK043 4 F1  FSK063 4 F1  FXC083 2 J1, J2  KCO115 1 L1  KCOM97 1 L1  RY1152 1 PSI	c			2021	8	Sround Terminal block, green/yellow, 1x2 push-in connections	
CCY117         2         X1           CCY118         6         X1           FSK043         4         F1           FSK063         4         F1           FYS035         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RFT159         1         GR1           RY1152         1         PS1	2	CCY055				S5mm DIN Rail Perforated	
CCY118         6         X1           FSK043         4         F1           FSK063         4         F1           FYS035         2         J1, J2           KCD115         1         L1           KCM047         1         L1           RFT159         1         QR1           RYL152         1         PS1	4	CCY117				ferminal end stop, grey, clip-on, for DIN rails 35mm	
FSK043 4 F1 FSK063 4 F1 FX CO35 2 J1, J2 KCD115 1 L1 KCM047 1 L1 RFT159 1 GR1 RYL152 1 PS1	2	CCY118	- 20			feminal end plate, grey	
FYS035 4 F1  FYS035 2 J1, J2  KCD115 1 L1  KCM047 1 L1  RFT159 1 GR1  RY1152 1 PS1	9	FSK043				1-40 PH PAN SCREW 1/2"	
FYS035         2         JI, JI2           KCD115         1         L1           KCM047         1         L1           RFT159         1         GR1           RYL152         1         PS1	7	FSK063	4			110 x ½" phillips pan head aggressive thread zinc	
KCD115         1         L1           KCM047         1         L1           RFT159         1         GR1           RYL152         1         PS1	8	FYS035				Cord grip, 1/2" NPT, Plastic, Gray, Range: 0.157-0.354, UL LISTED	
KCM047         1         L1           RF1159         1         CR1           RYLIS2         1         PS1	6	KCD115				NTERLOCKED SHIELD PANEL 5" X 7" WITH PRE DRILLED MOUNTING HOLES	
RFT159         1         CR1           RYL152         1         PS1	10	KCM047	1	12290		function Box, Screw Cover, PVC, Molded Mounting Feet, 6 x 6 x 6	
RYL152 1 PS1	11	RFT159	304042	Carro		Stop and Switch Monitoring Relay - 24 V DC	
	12	RYL152				AC/DC POWER SUPPLY - 1 OUTPUT - 24V @ 2.5A - 60W - MODULE	
				=	ITEDI OCKEN	A MONITODED ENDI OCUDE	
INTERLOCKED & MONITORED ENCLINE				=	VI LI ILOOIALD		
INTERLOCKED & MONITORED ENCLOSURE	ĊI	V/400	IS DRAWING IS PROPRIETARY TI CICKORD SYSTEMS, LLC. IS RAWAING SHALL NOT RE COP THOUT WRITTEN CONSENT OF RE	TO AND PROPER PRED OR USED ROCKFORD SYST	DESCRIPTION:	9 9/3/2021 EPH CHANGED CORD GRUPS TO PYSO35 8 3/322/2021 ehickok CHANGED CORD GRUPS TO PYSO31 7 3/16/2021 ehickok REWAMED COM TO N1	REVISION 9
ERLOCKED & MONITORED ENCLOSURE    State   Strick   Strick						THE MANUAL THE PROPERTY OF THE	HAGE
INTERLOCKED & MONITORED ENCLOSURE  RESERVOIR SERVICE STORES TO PROSE  RECTOR TO STORE STORES TO PROSE  RECTOR TO STORES TO PROSE  RECTOR TO STORE STORES TO PROSE  RECTOR TO STORE STORES TO PROSE  RECTOR TO STORE STORES TO PROSE  RECTOR TO STORES TO PROSE  RECTOR TO STORE STORES TO PROSE  RECTOR TO STORES TO PROSE  RECTOR TO STORE STORES TO PROSE  RECTOR TO S	INDOBOGA				Bill Of Materials by Part N DRAWING NUMBER: 1.2221ATTM	DRAWN BY: DATE CONTROL OF CONTROL	4 / 4



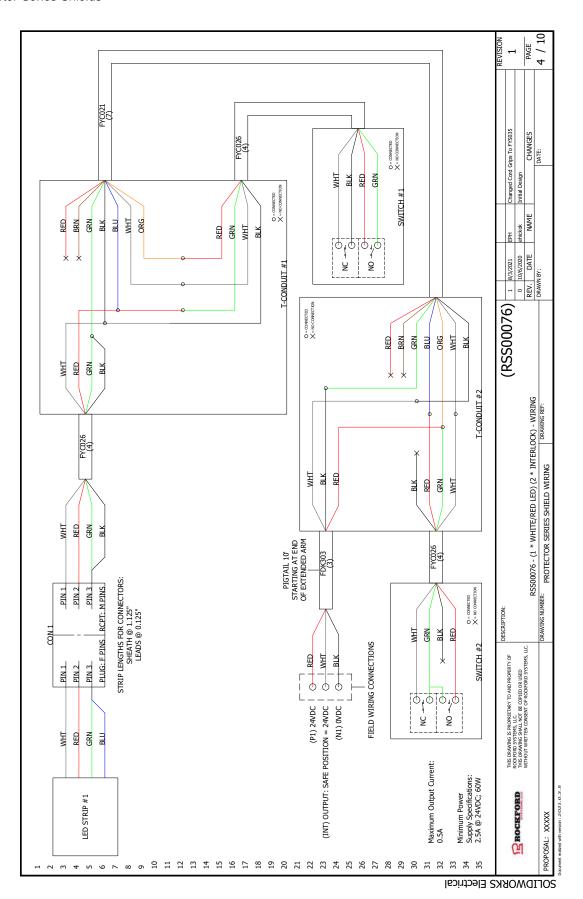
RSS00074 — 1 WHT/RED LED — 1 INTERLOCK

SOLIDWORKS Electrical

RSS00075 — 2 WHT/RED LED — 1 INTERLOCK

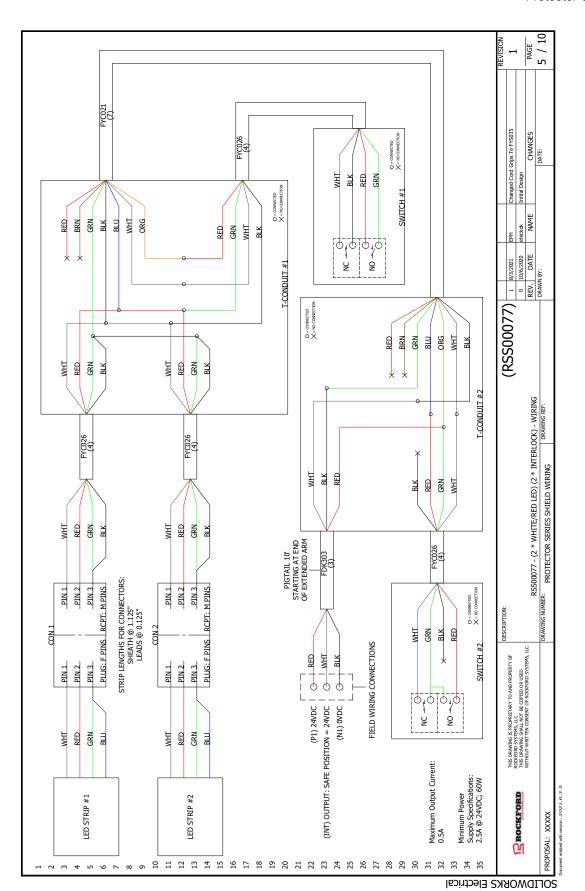


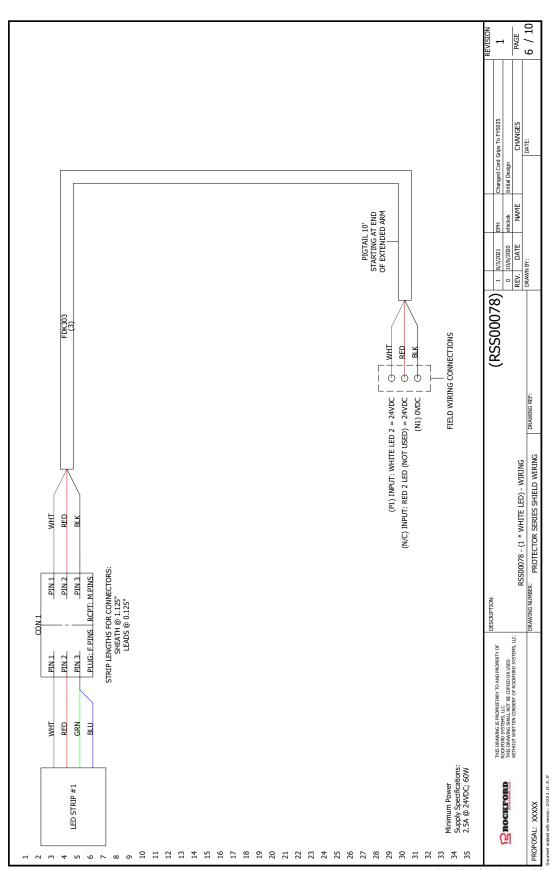
Rockford Systems, LLC Call: 1-800-922-7533



RSS00076 — 1 WHT/RED LED — 2 INTERLOCK

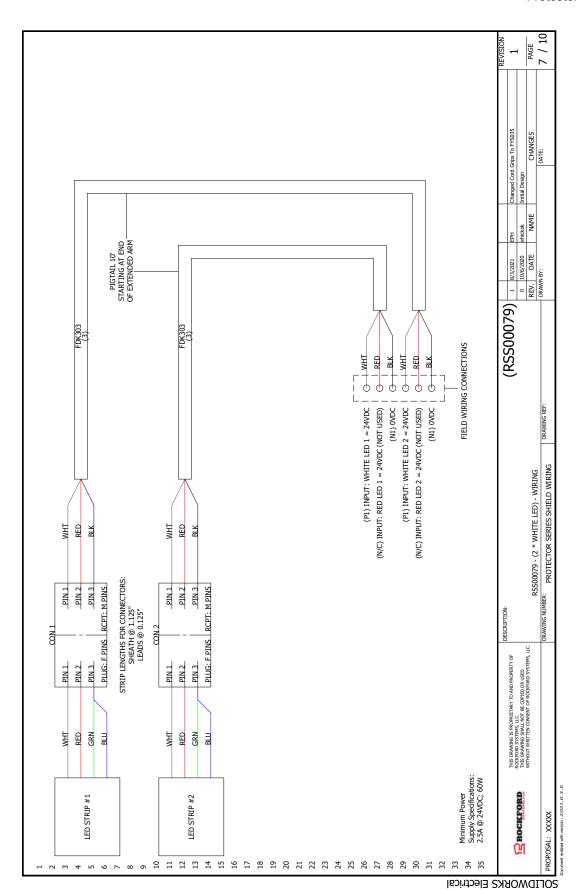
RSS00077 — 2 WHT/RED LED — 2 INTERLOCK



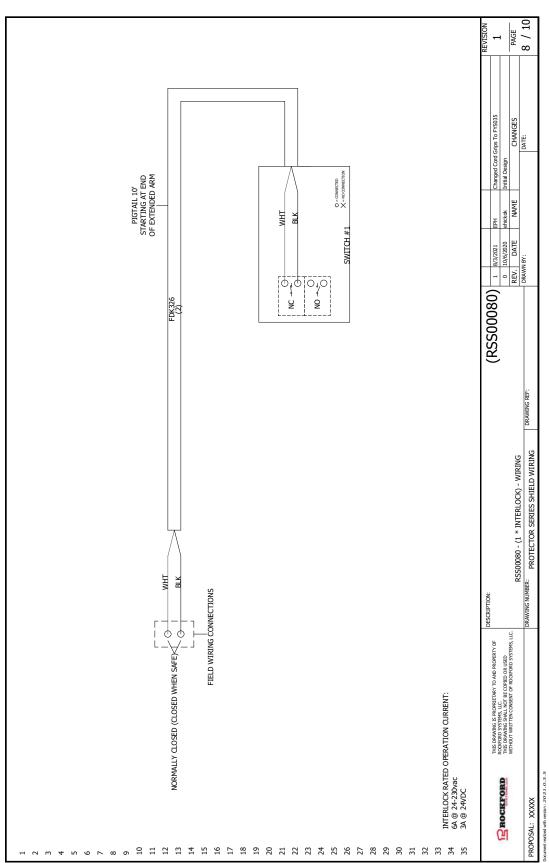


RSS00078 — 1 WHITE LED

SOLIDWORKS Electrical

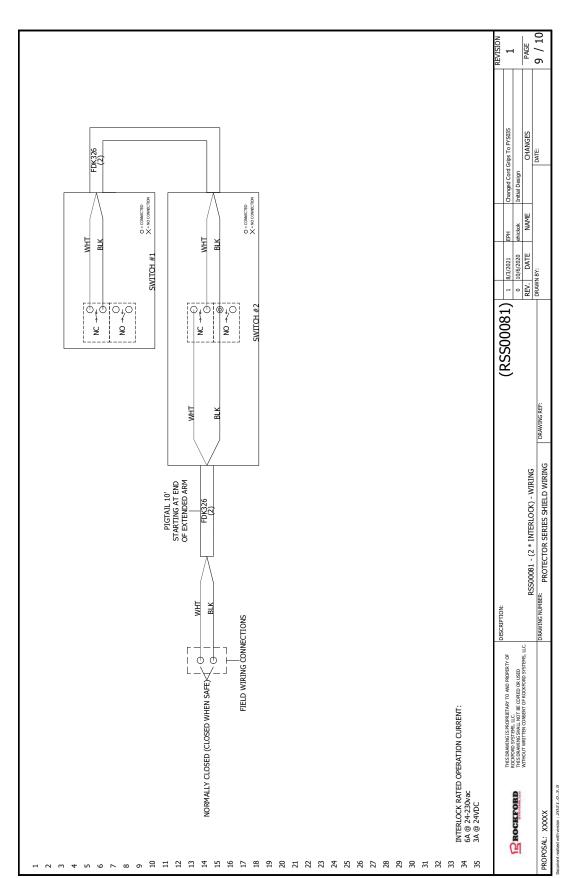


RSS00079 — 2 WHITE LED



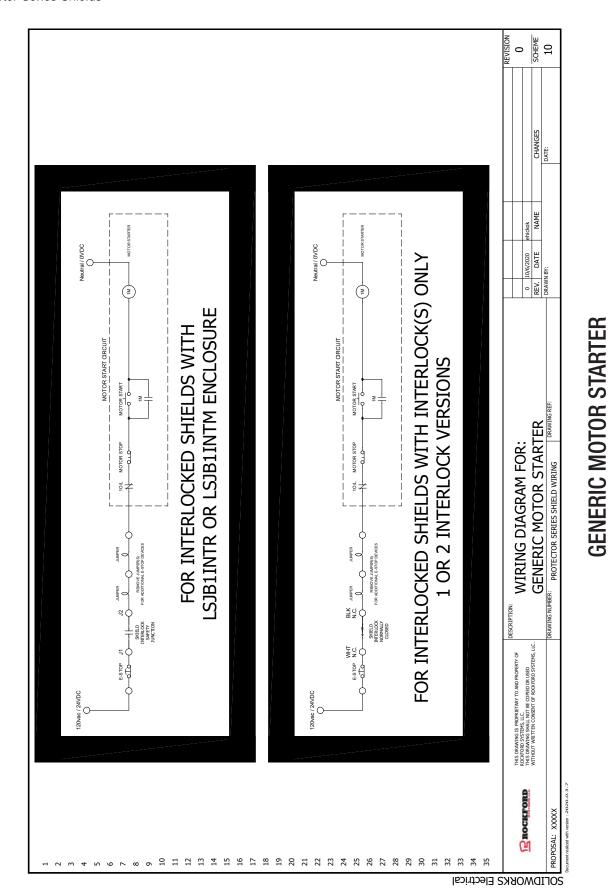
# RSS00080 — 1 INTERLOCK

SOLIDWORKS Electrical



RSS00081 — 2 INTERLOCK

SOLIDWORKS Electrical



PART NUMBER	DESCRIPTION	
RSS00008	CLIP RETAINER CENTER POLY .177"	•
RSS00009	CLIP RETAINER END POLY .177"	
RSS00024X7X6	POLY SHIELD FLAT 7"X6"	
RSS00024X9X8	POLY SHIELD FLAT 9"X8"	
RSS00024X14X12	POLY SHIELD FLAT 14"X12"	
RSS00024X16X14	POLY SHIELD FLAT 16"X14"	
RSS00034X0800	POLY SHIELD 3-SIDED 8" X 6"	
RSS00034X1600	POLY SHIELD 3-SIDED 16" X 8"	
RSS00034x2400	POLY SHIELD 3-SIDED 24" X 9"	
RSS00034X2800	POLY SHIELD 3-SIDED 28" X 12"	
RSS000370CT0600X0800	POLY SHIELD OCTAGONAL 6" X 8"	
RSS000370CT0900X0800	POLY SHIELD OCTAGONAL 9" X 8"	
RSS000370CT1200X0800	POLY SHIELD OCTAGONAL 12" X 8"	
RSS000370CT1600X0800	POLY SHIELD OCTAGONAL 16" X 8"	
RSS000370CT2000X1000	POLY SHIELD OCTAGONAL 20" X 10"	
RSS000370CT2400X1000	POLY SHIELD OCTAGONAL 24" X 10"	
RSS000370CT2800X1000	POLY SHIELD OCTAGONAL 28" X 10"	

# **SECTION 6** — **REPLACEMENT PARTS**

PART NUMBER	DESCRIPTION
RSS00047RND12X8	POLY SHIELD ROUND 12"X8"
RSS00047RND16X8	POLY SHIELD ROUND 16"X8"
RSS00047RND20X10	POLY SHIELD ROUND 20"X10"
RSS00047RND24X10	POLY SHIELD ROUND 24"X10"
RSS00047RND28X10	POLY SHIELD ROUND 28"X10"
RSS00055X600X600	POLY SHIELD 2-SIDED 6" X 6"
RSS00055X1400X1200	POLY SHIELD 2-SIDED 14" X 12"
RSS00055X1600X1400	POLY SHIELD 2-SIDED 16" X 14"
RSS00027X700	COVER LED FLAT 7"
RSS00027X900	COVER LED FLAT 9"
RSS00027X1400	COVER LED FLAT 14"
RSS00027X1600	COVER LED FLAT 16"
LEDRW3PTW	LED 3" RED/WHITE PRE-WIRED W/PLUG
LEDRW6PTW	LED 6" RED/WHITE PRE-WIRED W/PLUG
LEDRW14PTW	LED 14" RED/WHITE PRE-WIRED W/PLUG
LEDRW20PTW	LED 20" RED/WHITE PRE-WIRED W/PLUG
LEDRW26PTW	LED 26" RED/WHITE PRE-WIRED W/PLUG

# **SECTION 6** — **REPLACEMENT PARTS**

PART NUMBER	DESCRIPTION	
LEDRW32PTW	LED 32" RED/WHITE PRE-WIRED W/PLUG	
LEDRW38PTW	LED 38" RED/WHITE PRE-WIRED W/PLUG	
LEDRW50PTW	LED 50" RED/WHITE PRE-WIRED W/PLUG	
CMC615	SWITCH SAFETY 1NO/1NC	•
TSSPST	SWITCH POWER LED ONLY - NON-INTERLOCK	3
RFC157FP	SAFETY RELAY INTERLOCKED ONLY	
RFT159	SAFETY RELAY INTERLOCKED AND MONITORED	
RYL152	AC/DC POWER SUPPLY 24V	
CMK001	BLACK PLASTIC WIRING TEE ADAPTOR	

### LAYOUT OF PROTECTOR SHIELD INSTALLATION

MAKE YOUR SKETCH HERE FOR YOUR MACHINE,
NOTING THE LOCATION OF THE PROTECTOR SHIELD PARTS AND
COMPONENTS TO BE INSTALLED ON YOUR MACHINE

# SECTION 7 — ORDER FORM

Protector Series Shields

This instruction manual references signs and literature available for your machines. This order form is for your convenience to order additional signs and/or literature as needed. (This order form is part of your installation manual so please make a copy of it when ordering.)

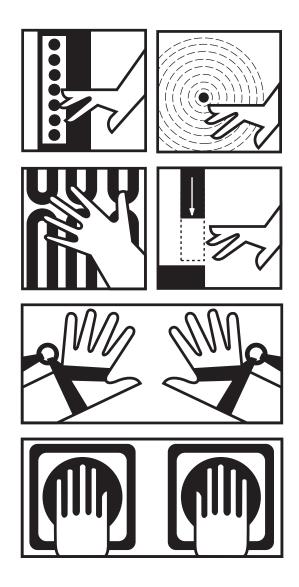
	State	Zip
	Fax	
	Purchase Order No	Date
Description		<b>Quantity Required</b>
MANUAL INSTALLATION PRO	TECTOR SHIELD	
SIGN DGR ROT COMP ENGLI	SH	
SIGN DGR ROT COMP SPANISH		
SIGN DGR ROT COMP FRENCH		
SIGN OPER SAFETY PREC ENGLISH		
SIGN OPER SAFETY PREC SPANISH		
SIGN OPER SAFETY PREC FP	RENCH	
	Description  MANUAL INSTALLATION PROSIGN DGR ROT COMP ENGLING SIGN DGR ROT COMP SPAN SIGN DGR ROT COMP FRENCE SIGN OPER SAFETY PRECENTIAL SIGN OPER SAFETY PRECESTATION OF THE SIGN OPER SAFETY PRECESTATION OPER SAFETY PREC	MANUAL INSTALLATION PROTECTOR SHIELD SIGN DGR ROT COMP ENGLISH SIGN DGR ROT COMP SPANISH SIGN DGR ROT COMP FRENCH SIGN OPER SAFETY PREC ENGLISH

## SECTION 8 — PRODUCT RETURN

Protector Series Shields

To return material for any reason contact the sales department in our organization at 1-800-922-7533 for an R.M.A. Number. All returned materials shipments must be prepaid. Complete this form and send with material to 5795 Logistics Parkway, Rockford, IL 61109-2695. Make sure the R.M.A. Number is plainly identified on the outside of the shipping container.

Company				
Address				
City		State	Zip	
Phone		Fax		
Contact Name		Representative		
Items Authorized To	o Return on R.M.A. <u>No.</u>	Original Invoice No.	Date	
Part No.	Serial No.	Description		
Service Requested  Reason for return (desc		ocking 🔲 Repair & Return 🔲 Warranty	Replacement	
Return Materials Autho	rized by	Date .		
	, <u> </u>			





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