

LOW PROFILE SCONCE™

LPS MRI SERIES – SEMI-RECESSED LED

PRODUCT FEATURES:

- » Semi-recessed wall mount, non-ferrous construction
- » One-piece die-cast aluminum frames with edge-lit LED lamp source
- » Optional decorative lens materials
- » Simple-to-clean construction—meets NSF2 requirements
- » Product meets California OSHPD requirements



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING: Marine-grade die-cast aluminum frame. Frame serves as LED heat sink. Die-formed and welded aluminum driver enclosure, TGIC polyester powder coat finish with five-step pre-treatment; salt-spray test 1,000 hours. See Ordering Information for available finishes. Closed-cell gasketing at all housing interfaces.

OPTICAL: Internal laser-etched acrylic light guide for uniform luminance from edge-lit LED light source. Thin film polycarbonate diffuser; white appearance when unlit (standard outer lens). Optional decorative lens finishes are internally laminated with a matte outer finish.

ELECTRICAL: Luminaire input 24VDC from remote-located 120-277VAC, high-power-factor power supply with EMI filter. Dimming line EMI filter required if utilizing dimming function. Dimming controlled through 0-10V dimmer (supplied by others). Dimming range down to 10% light output. See below for ordering information.

INSTALLATION: One (1) concealed fastener secures frame assembly to mounting plate. Mount frame to provided recessed backbox. Specify new or remodel construction. All power and signal wiring must be completely shielded in continuously grounded aluminum conduit. Light engine and internal driver are replaceable post-installation. MRI room EMI filters required (supplied by others).

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Damp Location. NSF2 Splash/Non-Food Zone. ADA compliant. California OSHPD compliant.

NOTE: Custom decorative lenses and color-coordinated custom color frames are available.



ORDERING INFORMATION (Ex: LPSR5MRI-12-NC-FP-MW-13L40K-DCC-24VDC)

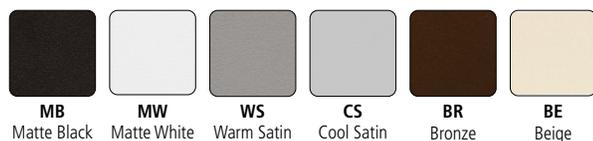
Model	Length	Mounting	Decorative Outer Lens	Finish	Lamp Type	Driver Type	Voltage
LPSR5MRI	12					DCC	24VDC

Model	Decorative Outer Lens	Finish	Driver Type
LPSR5MRI Semi-Recessed MRI Sconce	FP Frosted Polycarbonate (Standard) CDT Colored Dots MDT Monochrome Dots WVE Weave BWV Bronze Weave BRC Branches BBR Bronze Branches VNE Vine BVN Bronze Vine PIP Pipes BPI Bronze Pipes CD Custom Decorative Lens (Consult Factory)	BE Beige BR Bronze CS Cool Satin Painted Anodized MB Matte Black (Antimicrobial) MW Matte White (Antimicrobial) WS Warm Satin Painted Anodized CC Custom Color (Consult factory)	DCC Dimming Constant Current Voltage 24VDC 24 Volts DC
Length	12 12" Nominal	Lamp Type	13L27K 13 Watt 2700K LED 13L30K 13 Watt 3000K LED 13L35K 13 Watt 3500K LED 13L40K 13 Watt 4000K LED
Mounting	NC New Construction RC Remodel Construction		

MRI LUMINAIRE CONNECTION PER POWER SUPPLY

Luminaire Number	Lamp Power	Amps/Luminaire	Max Luminaires per MRIPSE-480 Power Supply	Max Luminaires per MRIPSE-240 Power Supply	Max Luminaires per MRIPSE-120 Power Supply
LPSR5MRI	13L	0.76	26	13	6

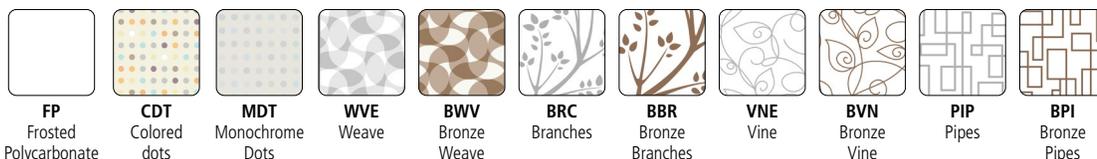
FRAME FINISH



ACCESSORIES ORDERED SEPARATELY

- MRIPSF** Remote Power Supply with EMI Filter ([click here for specifications](#))
- MRIFD-1A** Dimming Filter (one per dimming circuit, [click here for specifications](#))

DECORATIVE OUTER LENS



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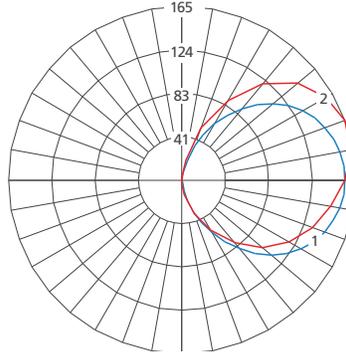
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LPS MRI SERIES – SEMI-RECESSED LED

PERFORMANCE	Initial Delivered Lumens					
	Lamp Type	@ 25°C	Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life
	13L27K	452	28	16	117	70,000
	13L30K	511	32	16	117	70,000
	13L35K	511	32	16	117	70,000
	13L40K	587	37	16	117	70,000

Information above was tested with standard Frosted Polycarbonate lens. Visit www.kenall.com for additional information.

Model: LPSR5MRI-12-XX-XX-XX-13L35K-DCC-24VDC

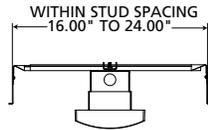


Maximum Candela = 165 Located At Horizontal Angle = 20, Vertical Angle = 90

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)

DIMENSIONAL DATA

NEW CONSTRUCTION

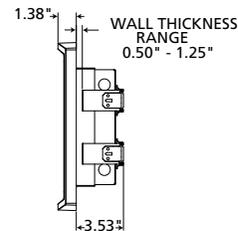
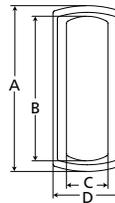
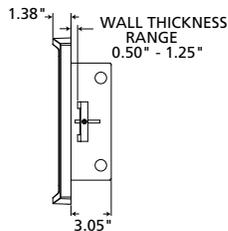
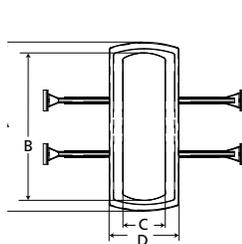


REMODEL

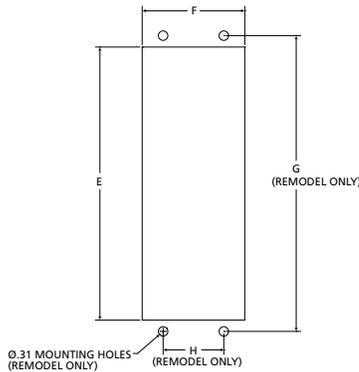


DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
12"	12.62	11.00	3.14	5.20



RECOMMENDED WALL CUTOUT SIZE



Length	Recessed Box Size	Recommended Cutout Size			
		E	F	G*	H*
12"	8.88" x 3.19"	9.00"	3.38"	9.75"	2.00"

* Mounting Holes Required for Remodel Only



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LPS SERIES – SEMI-RECESSED MOUNT – NEW CONSTRUCTION

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED. DISCONNECT POWER TO ALL CIRCUITS BEFORE WIRING FIXTURE. INSTALL IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES. DO NOT CONNECT TO AN UNGROUNDED SUPPLY. READ ALL FIXTURE MARKINGS AND LABELS TO ENSURE CORRECT INSTALLATION OF FIXTURE. SUPPLEMENTAL INSTRUCTIONS MAY BE LOCATED ON THE FIXTURE, IN ADDITION TO THIS INSTRUCTION SHEET, REGARDING ORIENTATION, OR MOUNTING RESTRICTIONS.

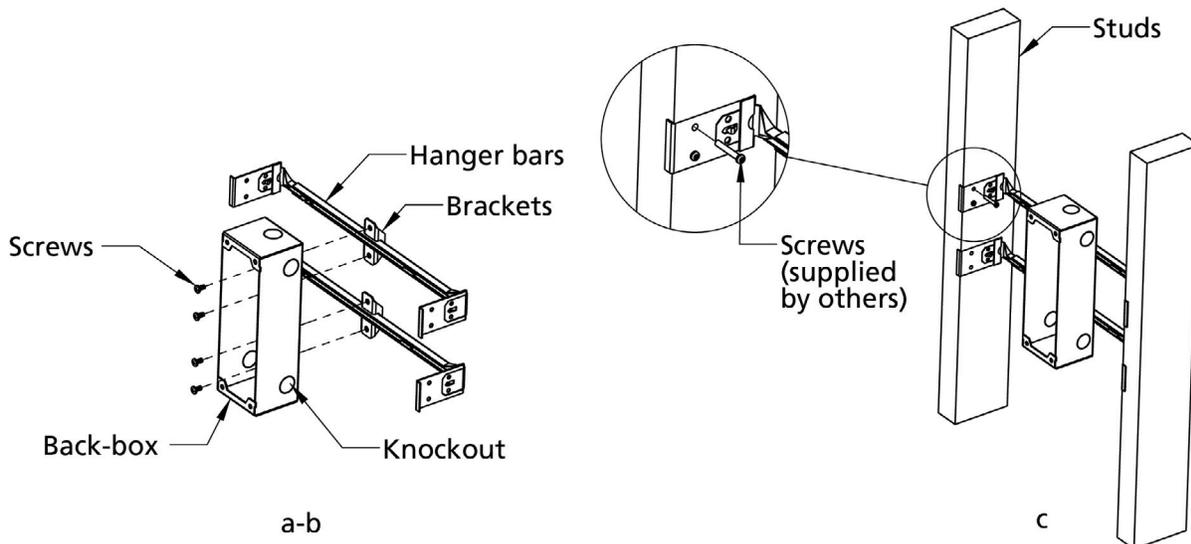
SAVE THESE INSTRUCTIONS



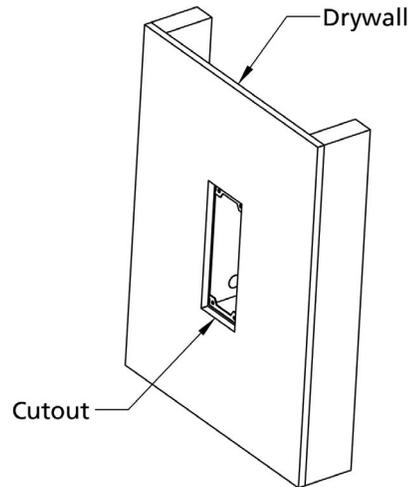
INSTALLATION INSTRUCTIONS

2. Mount Back-box and Hanger Bars.
 - b. Remove knockouts as needed.
 - b. Mount back-box to hanger bars using the screws and brackets supplied with the fixture.
 - b. Install hanger bar assembly. Use four screws per hanger bar (supplied by others).

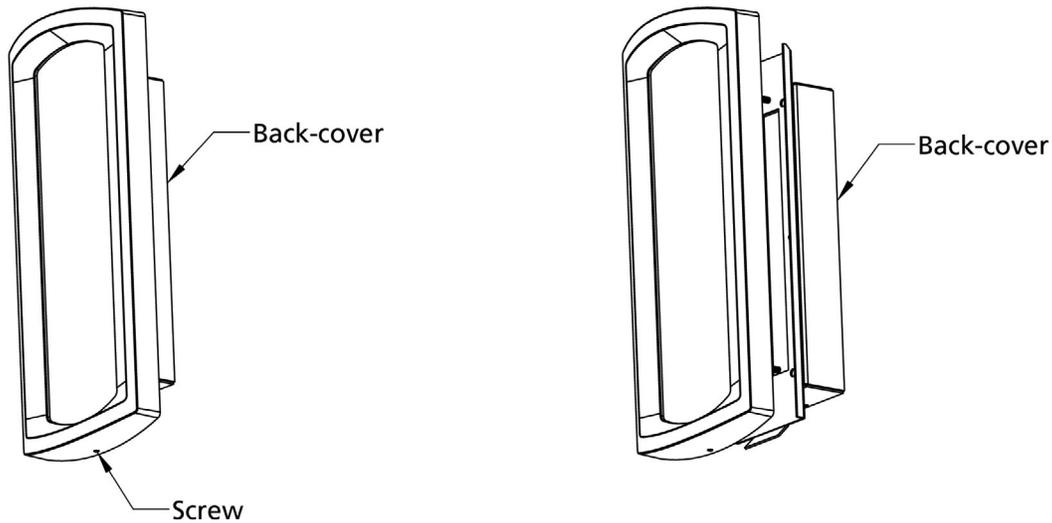
Note: Remember to use non-ferrous hardware when installing MRI fixtures.



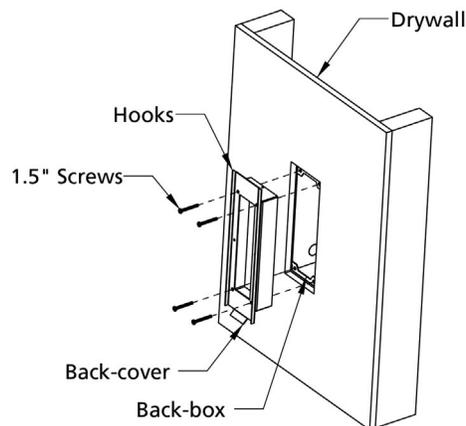
- After the Drywall has been installed, cut a rectangular hole over installed back-box. Use back-box as template, or see Spec Sheet for cutout dimensions.



- Remove Back Cover from fixture by backing out screw at bottom of housing until Back Cover is free.



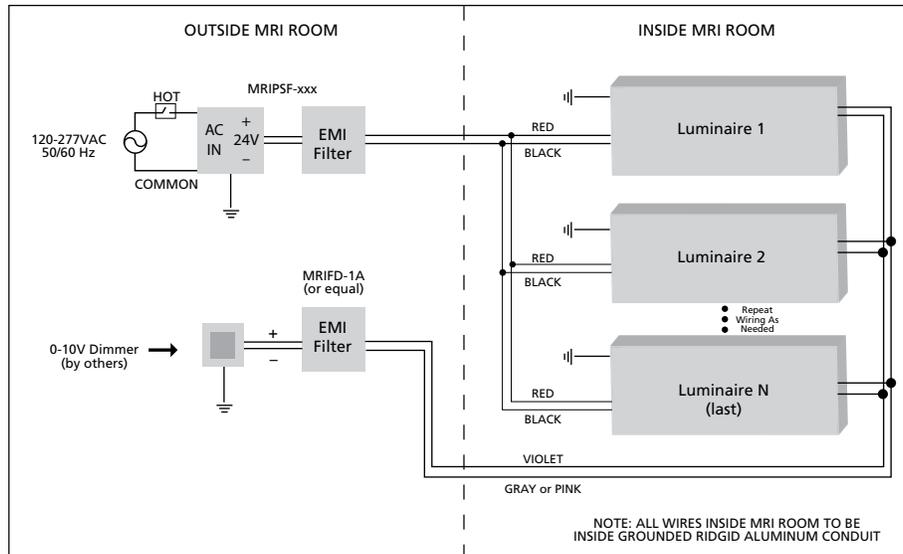
- Insert back-cover through hole in drywall - make sure that hooks on housing are pointing up. Attach back-cover to back-box using (4) screws included.



- Make electrical connections. Disconnect facility power to the electric power supply leads. Connect fixture leads to power supply leads using connectors suitable for the gage and number of wires being used (not included).

MRI Fixtures:

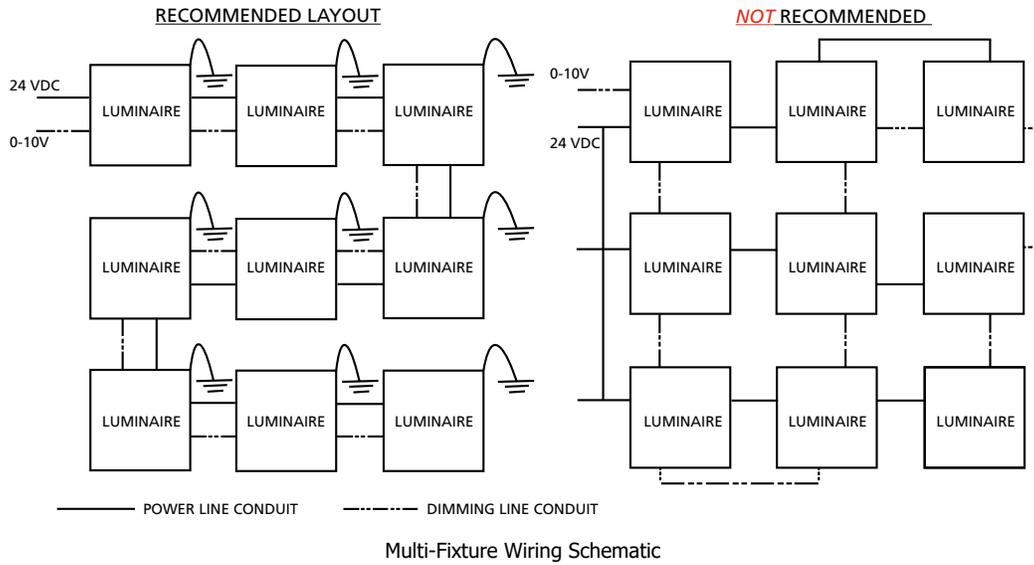
- Install the MRIPSF remote power supply and EMI filter in accordance with the supplied installation instructions.
- If a 0-10V dimming circuit is to be connected, install at this time. The 0-10V dimmer must be installed outside the shielded MRI environment with the Kenall MRIFD-1A dimming line filter (or equivalent) installed in accordance with the supplied installation instructions. Kenall recommends the Lutron Diva (DVSTV) and Lutron Nova T (NTSTV-DV) series to ensure full range of dimming can be achieved.



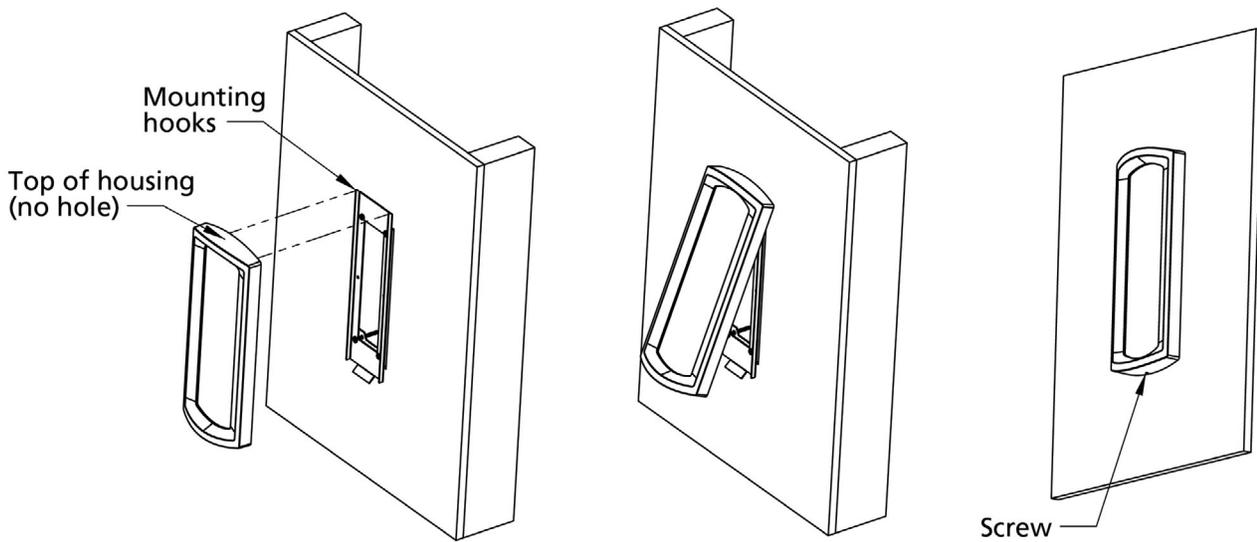
Single-Supply System Schematic

- Run DC wiring, equal in size and temperature rating to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Follow recommended wiring layout described within Single-Supply System Schematic. All wiring must be within completely-enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Class 1 wiring methods are required.
- Run the dimming signal wiring, equal in specification to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Maintain polarity between input and output sides of the filter and follow wiring recommendation in Multi-Fixture Wiring Schematic. All wiring must be within completely enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Cap gray/pink and violet leads at luminaire(s) if dimming function is not implemented.
- Connect power on line voltage side and test system operation. Test operation of lighting system, including dimming functionality, during MRI machine idle mode and during scanning operations.
- Fill out the Installation Registration Form and fax to Kenall at (262) 891-9701.





6. Install housing. Top of housing bracket engages mounting hooks on back-cover.
7. Tighten screw at bottom of housing.



CUSTOMER SERVICE

For technical assistance, call 1-800-4KENALL (1-800-453-6255).

WARRANTY

For warranty information visit www.kenall.com/Resources/Certified-Performance-Warranties



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LPS SERIES – SEMI-RECESSED MOUNT – REMODEL CONSTRUCTION

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

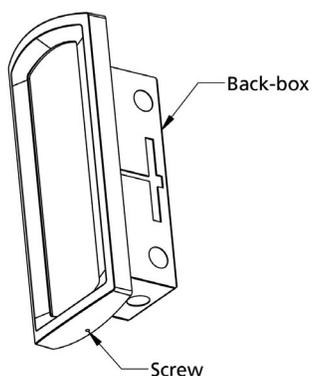
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED. DISCONNECT POWER TO ALL CIRCUITS BEFORE WIRING FIXTURE. INSTALL IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES. DO NOT CONNECT TO AN UNGROUNDED SUPPLY. READ ALL FIXTURE MARKINGS AND LABELS TO ENSURE CORRECT INSTALLATION OF FIXTURE. SUPPLEMENTAL INSTRUCTIONS MAY BE LOCATED ON THE FIXTURE, IN ADDITION TO THIS INSTRUCTION SHEET, REGARDING ORIENTATION, OR MOUNTING RESTRICTIONS.

SAVE THESE INSTRUCTIONS

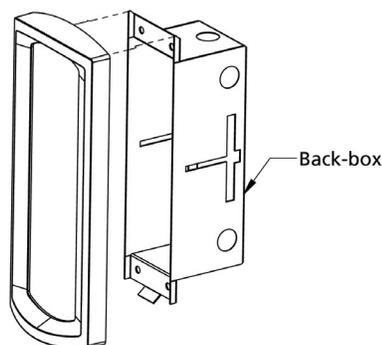


INSTALLATION INSTRUCTIONS

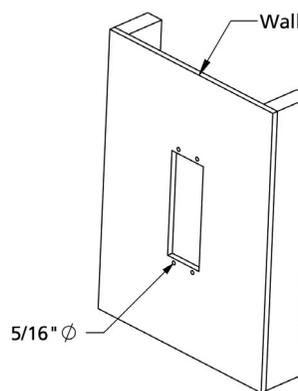
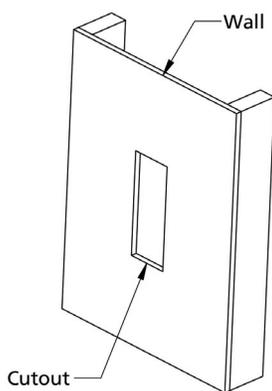
1. Back out screw(s) at bottom of housing until back-box can be easily removed.



2. Remove back-box.

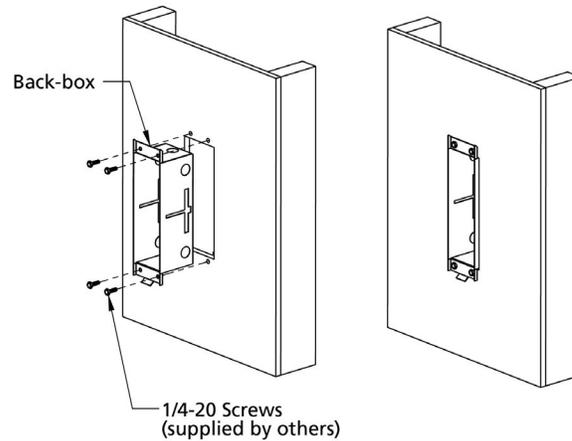


3. Cut a rectangular hole in the wall and drill four (4) 5/16" holes. Use the back-box as a template or see Spec Sheet for dimensions.

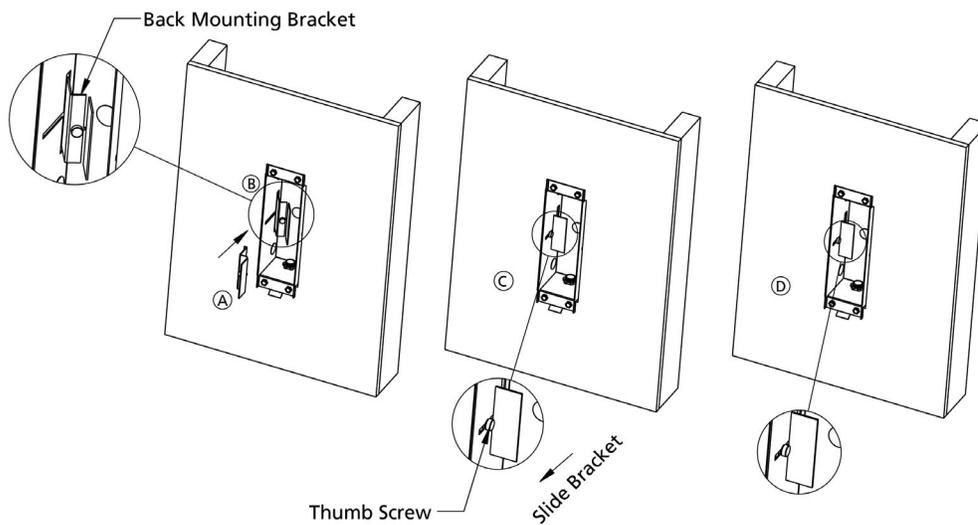


4. Mount Back-box. Insert the back-box into the cutout making sure that the hooks are pointing up. Attach back-box using anchors appropriate for surface, 1/4-20 screws and nuts (supplied by others). Remove knockouts as needed.

Note: Remember to use non-ferrous hardware when installing MRI fixtures.



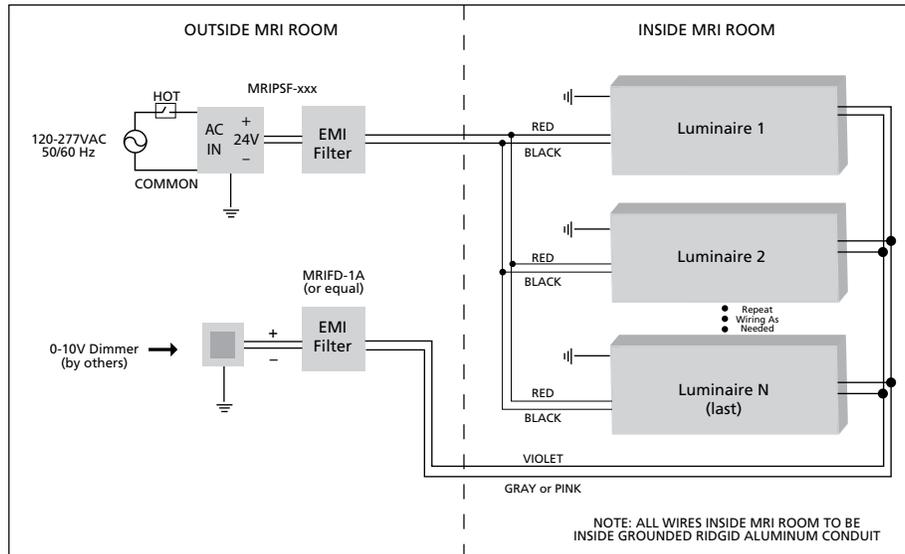
5. Install back mounting brackets.
 - a-b. Insert back mounting bracket as shown below.
 - c. Slide bracket towards the wall and tight thumb screw.
 - d. Break metal tab by twisting it back-and-forth. Repeat these steps to install the second bracket.



7. Make electrical connections. Disconnect facility power to the electric power supply leads. Connect fixture leads to power supply leads using connectors suitable for the gage and number of wires being used (not included).

MRI Fixtures:

- Install the MRIPSF remote power supply and EMI filter in accordance with the supplied installation instructions.
- If a 0-10V dimming circuit is to be connected, install at this time. The 0-10V dimmer must be installed outside the shielded MRI environment with the Kenall MRIFD-1A dimming line filter (or equivalent) installed in accordance with the supplied installation instructions. Kenall recommends the Lutron Diva (DVSTV) and Lutron Nova T (NTSTV-DV) series to ensure full range of dimming can be achieved.

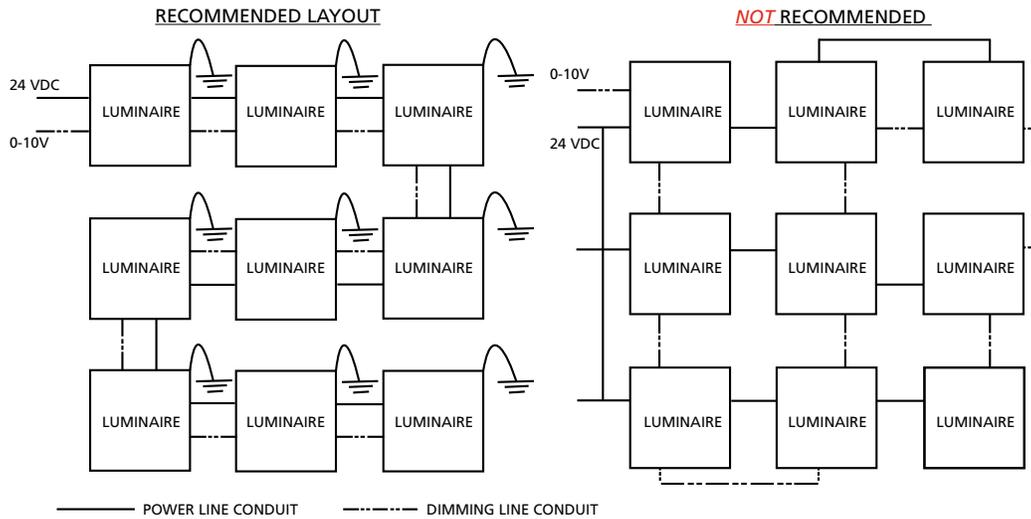


Single-Supply System Schematic

- Run DC wiring, equal in size and temperature rating to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Follow recommended wiring layout described within Single-Supply System Schematic. All wiring must be within completely-enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Class 1 wiring methods are required.
- Run the dimming signal wiring, equal in specification to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Maintain polarity between input and output sides of the filter and follow wiring recommendation in Multi-Fixture Wiring Schematic. All wiring must be within completely enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Cap gray (or pink) and violet leads at luminaire(s) if dimming function is not implemented.

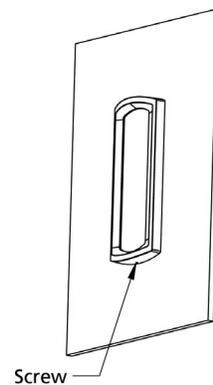
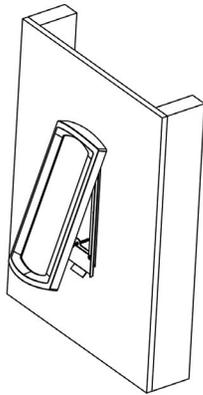


- Connect power on line voltage side and test system operation. Test operation of lighting system, including dimming functionality, during MRI machine idle mode and during scanning operations.



Multi-Fixture Wiring Schematic

- Fill out the Installation Registration Form and fax to Kenall at (262) 891-9701.
8. Top of housing bracket engages mounting hooks on back-box.
 9. Tighten screw at bottom of housing.



CUSTOMER SERVICE

For technical assistance, call 1-800-4KENALL (1-800-453-6255).

WARRANTY

For warranty information visit www.kenall.com/Resources/Certified-Performance-Warranties



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CUSTOMER ACKNOWLEDGEMENT

Customer acknowledges that these Installation Instructions are part of the product specification, and that the attached Installation Registration Form will be provided to the installer to sign and return to Kenall after installation is complete. This signed release is required by Kenall before order will be released into production.

Signature: _____

Date: _____

Print Name: _____

Company Name: _____

IMPORTANT SAFEGUARDS

To prevent MRI machine interference, all DC power and dimming signal wiring must be completely shielded within grounded aluminum conduit and a suitable MRI room EMI filter must be installed on each line.

When using electrical equipment, basic safety precautions should always be followed, including the following:
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

SAVE THESE INSTRUCTIONS

-
- Disconnect power to all circuits before wiring system.
 - Install in accordance with all national, state, and local codes.
 - Do not connect to an ungrounded supply.
 - Wiring connections must be made internal to the enclosure.
 - Failure to install unit on a mechanically-sound surface may result in personal injury, physical damage, or potential fire hazard.
 - Use installation procedures appropriate for an environment involving MRI and sensitive electronic equipment.
 - Read all markings and labels to ensure correct installation of the power supply. Supplemental instructions may be located on the enclosure, in addition to this instruction sheet, regarding orientation, or mounting restrictions.
 - Read instructions provided with the MedMaster™ MRIPSF remote power supply and DC filter system for proper installation and electrical connection to the lighting system.



CUSTOMER ACKNOWLEDGEMENT

MRI INSTALLATION REGISTRATION FORM

Customer acknowledges that the attached Installation Registration Form will be provided to the installer to sign and return to Kenall after installation is complete. For warranty purposes, please fill out this form and return to Kenall by fax at (262) 891-9701.

I certify that the lighting installation for the listed MRI suite location is completed per the provided installation instructions and to the best of my abilities.

Please check off items to denote status:

- Installation instruction sheets for MRIPSF-480 remote power supply and DC filter system and individual luminaire(s) read and followed.
- MRIPSF-480 power supply and EMI filters are located outside the shielded enclosure.
- All DC supply wiring is completely enclosed within grounded aluminum conduit. Installation has no ungrounded/unshielded portions of conduit or openings of any size or shape.
- All dimming signal wiring is completely enclosed within grounded aluminum conduit. Installation has no ungrounded/unshielded portions of conduit or openings of any size or shape. Check here if dimming is not applicable:
- If supplied by others, MRI Room EMI filters for the 24VDC supply and dimming signal are of the type intended for MRI suites and are sized to the electrical load.
- DC supply power and dimming signal are NOT running through the same EMI filter. Check here if dimming is not applicable:
- Lighting system fully tested (including dimming operation, if applicable) while MRI machine is in idle and scan operation mode.

If any of these steps cannot be completed or you need technical assistance, please contact Kenall Technical Support at 1-800-4KENALL (1-800-453-6255).

Electrical Contractor

Installation Site

Name: _____

Name: _____

City/State: _____

City/State: _____

Phone: _____

FAX FORM TO (262) 891-9701

Installation Date: _____

(Do not write below line)

Kenall Received By: _____ Received Date: _____



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