

## USA Installation Instructions

### Remote Controlled Spotlight Type DRX1

#### BEFORE YOU START

Read these instructions carefully. For the latest instructions on all our products see [www.rclighting.com/downloads](http://www.rclighting.com/downloads)

These instructions cover the following installation methods:

- A 2-Circuit Installation
- B 1-Circuit Installation
- C 4" Junction Box Installation
- D Monopoint DMX Installation
- E Accessory Change

If you have any difficulty installing this product please contact:

Remote Controlled Lighting Ltd (UK)  
42 Riverside Road, London SW17 0BA  
+44 (0) 20 8404 2400  
[tech@rclighting.com](mailto:tech@rclighting.com)

Remote Controlled Lighting Ltd (Asia)  
Unit 13, 8/F, Lai Sun Yuen Long Centre  
21-35 Wang Yip Street East,  
Yuen Long, Hong Kong  
T: +852 2310 9733  
F: +852 2310 9723  
[asia\\_sales@rclighting.com](mailto:asia_sales@rclighting.com)

#### Important Safety Information

READ INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT. SAVE INSTRUCTIONS FOR LATER REFERENCE.

PRODUCT IS NOT SUITABLE FOR PHASE DIMMING

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.

If using a track adaptor, ensure it is compatible with the track system installed. Failure to do so may result in danger of electric shock and damage to the product.

Ensure electrical rating shown on product label conforms to incoming voltage supply.

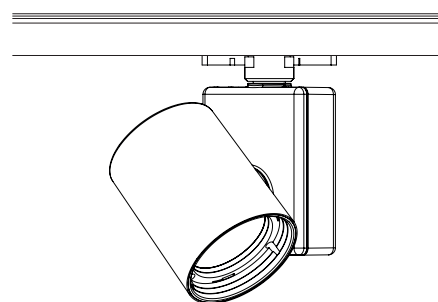
Do not modify the product in any way. RCL accepts no responsibility for damage caused by modifying this product.

**IP20** Dry locations only.

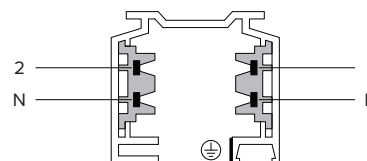
Caution, product will become hot in use. Allow to cool before touching.

Dispose of this product in accordance with WEEE or other national regulations.

## A 2-Circuit Track Installation



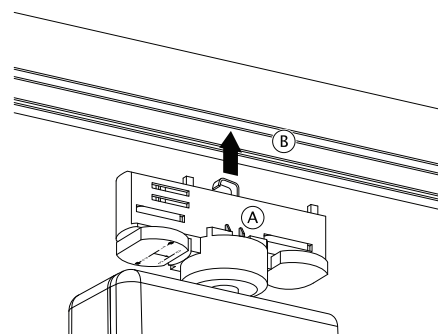
- 1 Ensure the track adaptor is compatible with the 2-Circuit track system installed. Unless otherwise specified, the DRX1 luminaire is supplied with a Eutrac 2-Circuit track adaptor as standard.



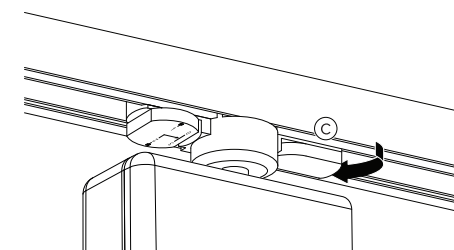
- 2 To mount the track adaptor into the track system, check that both tabs on the adaptor are in the open position and insert into the track.

#### NOTES

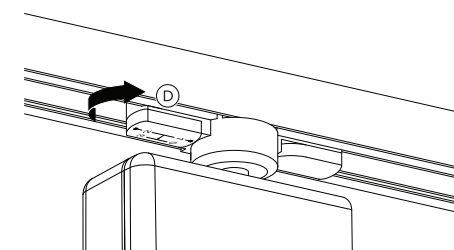
- Ensure the track adaptor is oriented correctly. Align the earthing tabs (A) with the slot (B) on the track.
- Allow a minimum of 12" (~300mm) between luminaire mountings.



- 3 Rotate tab (C) clockwise 90° to connect the adaptor to the neutral circuit.

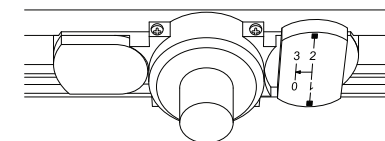


- 4 Rotate tab (D) to the desired circuit position (see section 5).

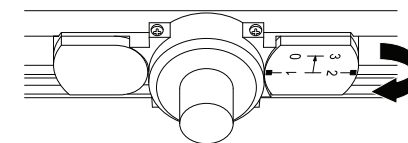


- 5 With the 2-Circuit track adaptor, you can choose which circuit the luminaire is connected to:

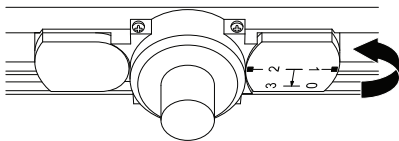
Unconnected - The luminaire is fixed to the track but not connected to any circuit.



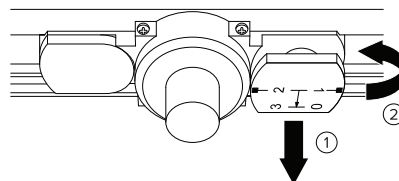
Circuit 1 - From the starting position, rotate the tab clockwise 90°.



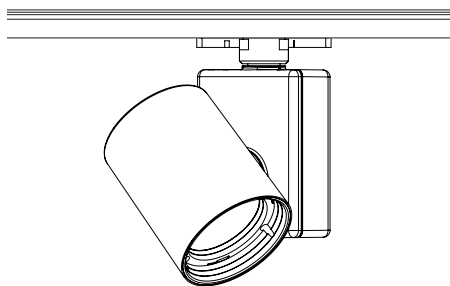
- 6 Circuit 2 - From the starting position, rotate the tab anti-clockwise 90°.



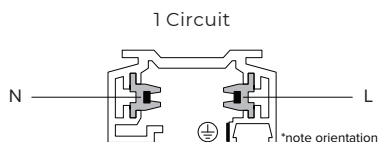
- Circuit 3 - From the starting position, pull tab down ① and rotate the tab anti-clockwise 90° ②.



## B 1-Circuit Track Installation



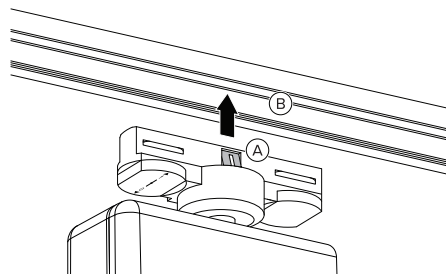
- 1 Ensure the track adaptor is compatible with the 1-Circuit track system installed. Unless otherwise specified, the DRX1 luminaire is supplied with a Eutrac 1-Circuit track adaptor as standard.



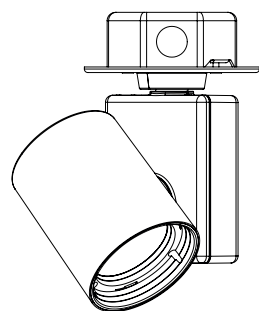
- 2 To mount the track adaptor into the track system, check that both tabs on the adaptor are in the open position and insert into the track.

### NOTES

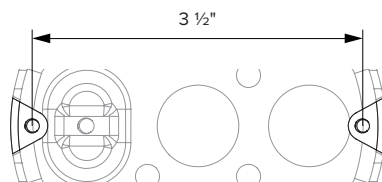
- Ensure the track adaptor is oriented correctly. Align the earthing tabs (A) with the slot (B) on the track.
- Allow a minimum of 12" (~300mm) between luminaire mountings.



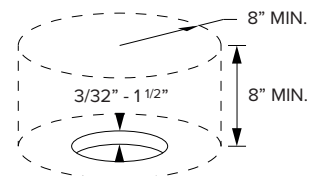
## C 4" Junction Box Installation



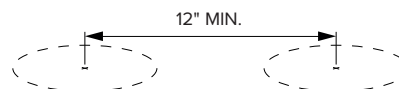
- 1 The junction box required for installation should not exceed 4" in diameter and requires 2x #8-32 UNC threaded mounting holes positioned 3 1/2" (89mm) apart from the centre of origin.



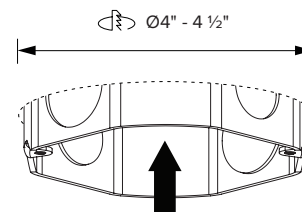
- 2 The junction box requires a minimum clearance distance of 8" (~200mm) above and around the mounting point and a ceiling material thickness of 3/32" - 1 1/2" (~3-35mm).



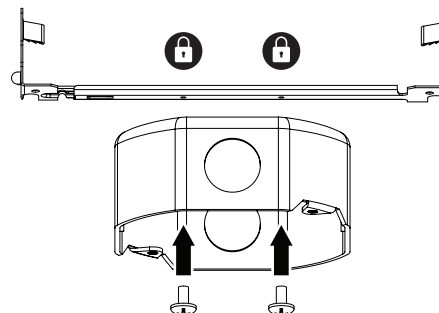
- 3 For multiple installations, ensure a minimum distance of 12" (~300mm) between mounting points.



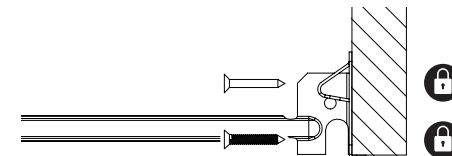
- 4 Mark up the ceiling and cut a circular hole between 4" - 4 1/2" (~Ø95-100mm) in diameter.



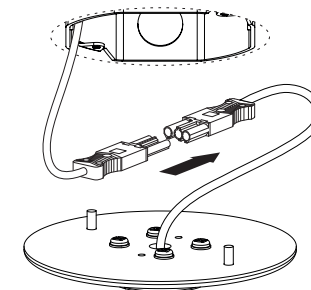
- 5 Insert the 4" junction box through the ceiling cutout and safely screw to a construction bracket using the appropriate screws.



- 6 Examine your joist material. If the joist is wood, hammer in nail support (if applicable) and fix the construction bracket in position with wood screws or nails. If the joist is metal, use suitable screws.



- 7 Run mains voltage cable through the installed junction box and connect to the luminaire using an electrical connector (not supplied).

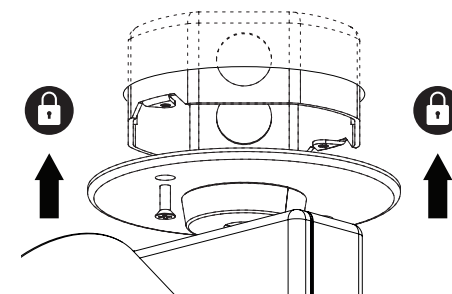


### NOTES

- For further instructions on DMX wiring and installation, please refer to Section D or DOC-083.

- 8 With the luminaire safely wired inside the fully installed junction box, secure the luminaire to the underside of the enclosure using the 2x #8-32 screws provided.

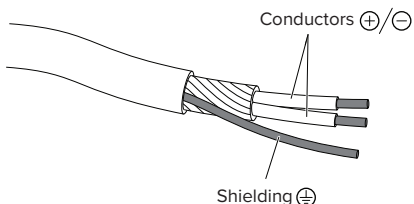
Make sure that the underside of the DRX1 mounting plate is flush with the ceiling line.



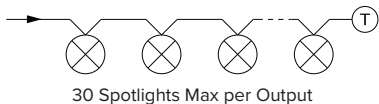
## D Monopoint DMX Installation

For the Director DR7, DR8 Monopoint, DR2 Monopoint and DRX1 Monopoint and Hook Clamp versions, a 3-way connector is used to supply the DMX signal to the spotlight.

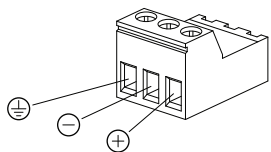
- 1 All DMX cabling should be 24AWG twisted pair with braided outer-shield drain wire e.g. Belden 8102. For CAT5/CAT6 cable wiring, see section D.



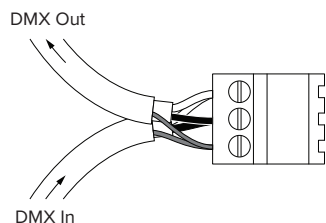
- 2 The maximum number of spotlights *per splitter output* should not exceed 30 (see 'Introduction to DMX512' for more details).



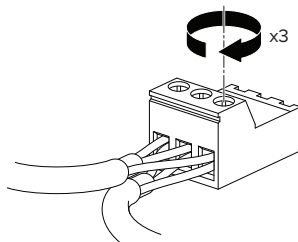
- 3 The DMX cable is connected to the luminaire via a 3-way connector, supplied by RCL.



- 4 Connect the DMX In and Out cables, ensuring that the cable shielding is grounded.



- 5 Tighten the connector screws to secure the cables in place ensuring a good connection between the lines.

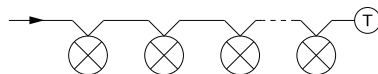


### NOTES

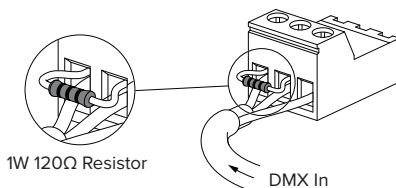
- The spotlights should be connected in a 'Daisy Chain' configuration so that if a spotlight is removed, the remaining spotlights will still receive the DMX signal.

- 6 Spotlights should be connected to the DMX source during installation. Refer to product installation instructions for more information.

- 7 Each DMX line needs to be terminated using a 1W 120Ω resistor that is connected to the last 3-way connector in the spotlight chain.



- 8 To terminate the spotlight chain, connect the resistor between the ⊕ and ⊖ terminals along with the final DMX In cable.



### IMPORTANT

- Each cable run should not exceed a maximum length of 11 13/16" (300mm) from the DMX source.

## E DMX Testing

- 1 Before RCL spotlights are installed, it is important to test the cable and source. Initially, test for resistance and isolation. Finally, send a DMX signal down the cable and check that it can be received and read by a DMX test set at each position where a light is to be installed.

RCL can recommend the following third party DMX test sets:

- Artistic Licence - Micro-Scope ([www.artisticlicence.com](http://www.artisticlicence.com)) ([www.goddarddesign.com](http://www.goddarddesign.com))
- Elation Professional – Dr DMX Multitool ([www.elationlighting.com](http://www.elationlighting.com))

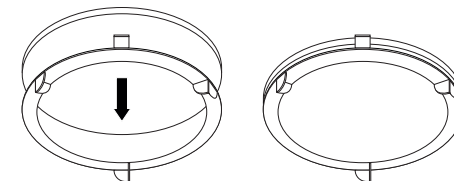
For more information on DMX testing, please see third party manufacturer instructions.

### NOTES

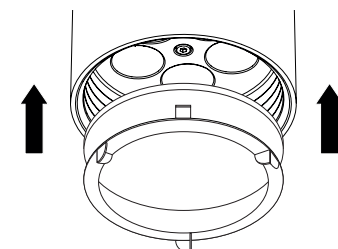
- During testing, it will be necessary to link the DMX In and DMX Out connectors at each position where no light is installed.

## F Accessory Change

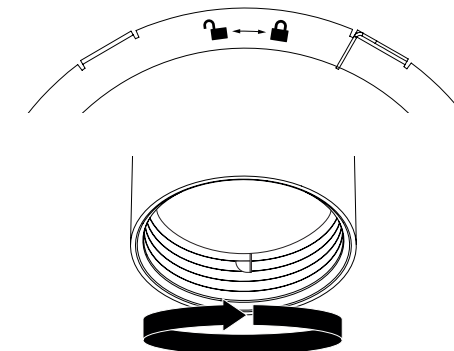
- 1 DRX1 accessories work in conjunction with the MEC-660 Accessory Clip. To ensure that the accessory is safely held in place at all times, combine the accessory with the clip.



- 2 Using the finger grips on the outside of the clip, raise the accessory into the can of the DRX1 until it meets the LED module.



- 3 To hold the accessory clip safely in place, rotate it clockwise until it locks with the fitting.





If you have any difficulty installing this product please contact:

Remote Controlled Lighting Ltd (UK) | 42 Riverside Road, London SW17 0BA  
+44 (0) 20 8404 2400 | [tech@rclighting.com](mailto:tech@rclighting.com)

Remote Controlled Lighting Ltd (Asia) | Unit 13, 8/F, Lai Sun Yuen Long Centre  
21-35 Wang Yip Street East, Yuen Long, Hong Kong  
T: +852 2310 9733 | F: +852 2310 9723  
[asia\\_sales@rclighting.com](mailto:asia_sales@rclighting.com)

Copyright © 2017 Remote Controlled Lighting Ltd. All Rights Reserved.