

# Mini LED Downlights Recessed 12V Remote Control Ceiling Light

Ultra-compact dimmable accent-light set for shelves, stairs, cabinetry and ceilings

This mini recessed LED spotlight set delivers precise accent lighting while remaining discreet in the finished surface. Each 1W aluminum luminaire uses a 0.59 in (15 mm) cutout, stainless-steel spring clips and an 18.50 in (47 cm) two-wire lead. Complete dimmable sets are offered with 9 or 18 lights and include a matched 12V DC constant-voltage power supply, RF controller and handheld remote. Choose 30° or 120° beam distribution, 3000K, 4000K or 6000K light color, and silver or black finish. Never connect the lights directly to 110-220V AC.

12V DC SYSTEM

DIMMABLE

9 / 18 LIGHT SETS



18-light set shown • 12V power supply • RF dimming controller and remote

## KEY PRODUCT DATA

### SET OPTIONS

**9 / 18**

Dimmable light sets

### SYSTEM VOLTAGE

**12V DC**

Constant-voltage output

### POWER PER LIGHT

**1W**

Low-power LED point light

### CUTOUT

**15 mm**

0.59 in mounting hole

### BEAM OPTIONS

**30° / 120°**

Focused or wide distribution

### COLOR TEMPERATURE

**3000K-6000K**

Warm, natural or cold white

## AVAILABLE CONFIGURATIONS

### SET

**9-light / 18-light dimmable kits**

### INCLUDED

**12V power supply, RF controller and remote**

### FINISH

**Silver / Black**

### LED SOURCE

**5050 type**

### MOUNTING

**Recessed spring clips**

### LEAD

**47 cm; red + / black -**

## PERFORMANCE AND CONSTRUCTION

# Technical Specification

## GENERAL / ELECTRICAL / OPTICAL

| Specification            | Details                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Product type             | Mini recessed dimmable LED spotlight set                                                          |
| Primary use              | Cabinetry, shelves, stairs, ceilings, displays and architectural accent lighting                  |
| Set configurations       | 9-light / 18-light                                                                                |
| LED source               | 5050 type LED                                                                                     |
| Nominal power            | 1W per luminaire; 9W or 18W connected LED load by set                                             |
| System voltage           | 12V DC constant voltage                                                                           |
| Supplied power / control | Matched 12V power supply, RF dimming controller and handheld remote                               |
| Dimming                  | Remote-controlled dimming through supplied RF controller                                          |
| Color temperature        | 3000K / 4000K / 6000K                                                                             |
| Beam angle               | 30° narrow / 120° wide                                                                            |
| Connection               | 2-wire low voltage; red positive (+), black negative (-)                                          |
| Body material            | Aluminum                                                                                          |
| Mounting                 | Recessed installation with stainless-steel spring clips                                           |
| Cable length             | 18.50 in (47 cm)                                                                                  |
| Dimensions               | Cutout 0.59 in (15 mm); face 0.79 in (20 mm); depth 0.98 in (25 mm); body 0.55 in (14 mm approx.) |
| Direct AC connection     | Not permitted - do not connect luminaires directly to 110-220V AC                                 |
| Shown finishes           | Silver / Black                                                                                    |

## MINI DIMENSIONS



## PROJECT COORDINATION NOTES

- **Power:** Use only the supplied or matched 12V constant-voltage power supply; nominal LED load is 9W or 18W by set.
- **Cutouts:** Confirm each 15 mm opening and at least 25 mm clear installation depth before drilling the finished surface.
- **Wiring:** Connect on the 12V side, maintain red (+) / black (-) polarity and follow the supplied parallel-wiring diagram.
- **Access:** Keep the driver and RF controller accessible for service, ventilation and remote pairing.
- **Safety:** Isolate mains power before work. The luminaires must never be connected directly to 110-220V AC.

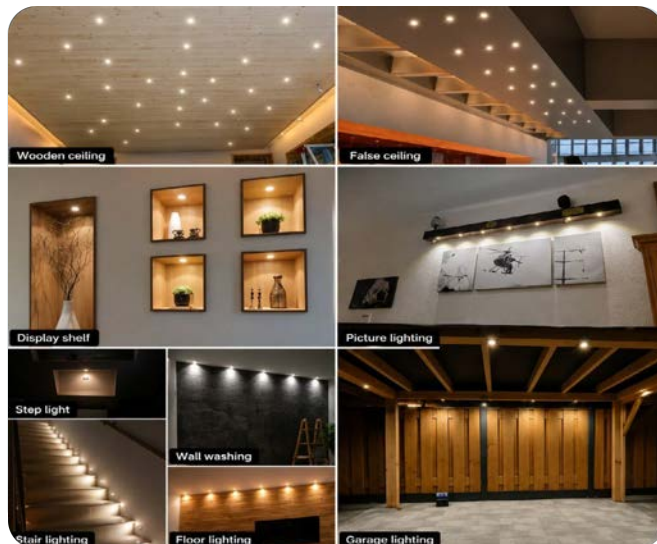
## SET OPTIONS

**9-LIGHT SET** 9W nominal

**18-LIGHT SET** 18W nominal

LOW-VOLTAGE PRECISION ACCENT LIGHTING

# Design and Installation



## RECOMMENDED INSTALLATION SEQUENCE

1

Plan the layout, beam, CCT and set size; keep the power supply and controller accessible.

2

Mark and cut 0.59 in (15 mm) holes; provide at least 0.98 in (25 mm) clear depth.

3

Route red/black leads to the 12V controller output, preserving polarity and low-voltage parallel wiring.

4

Power off, connect and test; compress spring clips, seat each light, then restore power and use the remote.

## APPLICATION / MOUNTING REFERENCE



Typical uses include stairs, display shelving, cabinetry and ceiling accents. Confirm environmental suitability for the selected installation.

## DESIGN GUIDANCE

- **Optics:** Use 30° narrow beam for focused details and 120° wide beam for broader accent lighting.
- **CCT:** Select 3000K warm, 4000K natural or 6000K cold white.
- **Spacing:** Test one light before drilling all openings; spacing depends on mounting height and beam.
- **Control:** Dimming is provided by the supplied RF controller and handheld remote.
- **Capacity:** Use the matched 9-light or 18-light set; do not combine kits on one driver unless approved.
- **Service:** Keep the power supply and controller accessible and ventilated.
- **Safety:** Luminaires are 12V DC only - never connect directly to 110-220V AC.

Follow the instructions packaged with the supplied set. Power supply, controller and accessory appearance may vary by configuration.

TENDER AND SCHEDULE SUPPORT

# Specification and Selection

## SUGGESTED SPECIFICATION CLAUSE

Provide a mini recessed LED downlight system for cabinetry, display shelving, stairs, ceilings and architectural accent lighting. Each luminaire shall be 1W, 12V DC constant-voltage, with 5050 LED source, aluminum body, stainless-steel spring clips, red (+) / black (-) two-wire connection and 18.50 in (47 cm) lead. Scheduled optic shall be 30° narrow or 120° wide; scheduled CCT shall be 3000K, 4000K or 6000K; and scheduled finish shall be silver or black. Fixture dimensions shall be 0.79 in (20 mm) face diameter, 0.55 in (14 mm approx.) body diameter and 0.98 in (25 mm) installation depth with 0.59 in (15 mm) cutout. Provide the scheduled 9-light or 18-light dimmable set complete with matched 12V power supply, RF controller and handheld remote. Connect luminaires only to the low-voltage output and never directly to 110-220V AC. Install and commission in accordance with the instructions supplied with the selected set.



## PROJECT SELECTION GUIDE

|                     |                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------|
| SET / LOAD          | <b>9-light:</b> 9 x 1W (9W nominal)<br><b>18-light:</b> 18 x 1W (18W nominal)                                            |
| DIMENSIONS          | Cutout 0.59 in (15 mm); face 0.79 in (20 mm); depth 0.98 in (25 mm); body 0.55 in (14 mm approx.); lead 18.50 in (47 cm) |
| CCT                 | 3000K Warm White / 4000K Natural White / 6000K Cold White                                                                |
| OPTIC / FINISH      | 30° narrow or 120° wide / Silver or Black                                                                                |
| POWER / CONTROL     | 12V DC constant voltage / matched power supply, RF controller and handheld remote included                               |
| CONNECTION / SAFETY | 2-wire red (+) / black (-) to low-voltage output; no direct 110-220V AC connection                                       |
| APPLICATION         | Cabinetry, shelves, stairs, ceilings, display lighting and architectural accents                                         |