DIN Panels and Accessories

The Lutron® family of DIN rail panels are designed to accept the Lutron® DIN power modules (DPMs). The DPMs can be configured in the panel to control multiple load types that fit the size, lighting plan and design of a home. The control panels have a control gear compartment that can house up to 2 processors, DMX and/or IO interfaces, 2 Wire Landing Boards (WLB), and 1 power supply. The satellite panels replace the control gear compartment with a mounting bracket to add an additional DPM. Panels may be either surface-mounted or recess-mounted in an electrical closet or other equipment room. There are feed-through, MCB and RCBO breaker options available for each panel size and type. For each DPM type, there is a terminal kit available as well as a wiring harness. There is also a QS harness for wiring from DPM to DPM. Other options include blanking plates for unused module positions and a reversible hinged door.

Features

- Panels house LQSE DIN power modules (DPMs)
  - LQSE-4A-D
  - LQSE-4S10-D
  - LQSE-4T10-D
- Control panels support
  - HQP6-2 (HomeWorks® QS Processor)
  - QSE-IO
  - QSE-DMX
  - QSE-IO
  - QSE-IO
  - QSE-IO
  - QSE-DMX
  - QSE-DMX
  - QSPS-DH-1-60
- Feed-through, MCB and RCBO breaker panels available.
- Panels extensively tested to ensure optimal thermal performance with maximum load in 0 °C to 40 °C (32 °F to 104 °F) ambient environment.
- Schneider Electric® commercial grade breakers.
- Panels with breakers include a main isolation (ISO) switch.
- Panels with breakers include pre-installed and verified wiring from an ISO switch to breakers.
- Bypass jumpers included for miswire protection.
- Panels are rated for 220–240 V~ CE and non-CE applications.
- Integral manual override switch turns all lights on to the programmed override level when activated.
- Panels are available in two sizes: 1 613 mm (63.50 in) and 921 mm (36.28 in).
- Reversible hinged door option available.
- Terminal Block kits available for each DPM type.
- Pre-assembled wiring harnesses available for each DPM type.
- Pre-assembled wiring harness available for QS link from DPM to DPM.
- Additional live and neutral feeds provided to add breakers in the field for LQSE-2ECO-D and LQSE-2DAL-D modules.
## DIN Panels and Accessories

### Specifications

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>PD10-64-F; PD10-64-BU10-2L4; PD10-64-RU10-2L4; PD10-64-BU10-2L2; PD10-64-RU10-2L2; PD9-64-F; PD9-64-BU10-2L4; PD9-64-RU10-2L4; PD9-64-BU10-2L2; PD9-64-RU10-2L2; PD8-64-F; PD8-64-BU10-2L4; PD8-64-RU10-2L4; PD8-64-BU10-2L2; PD8-64-RU10-2L2; PD5-36-F; PD5-36-BU10-2L4; PD5-36-RU10-2L4; PD5-64-BU10-2L2; PD5-64-RU10-2L2; PD4-36-F; PD4-36-BU10-2L4; PD4-36-RU10-2L4; PD4-64-BU10-2L2; PD4-64-RU10-2L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Feed-through: 220-240 V~; 50/60 Hz; 10 A per input maximum. Breaker and RCBO (3 phase 4-wire feed); 220-240 V~; 125 A input</td>
</tr>
<tr>
<td>Capacity</td>
<td>PD4-36: Four DPMs* in any combination, two Wire Landing Boards (WLB), one power supply unit and two Interface boxes or processors. The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. PD5-36: Five DPMs* in any combination, two Wire Landing Boards (WLB). The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. PD8-64: Eight DPMs* in any combination, two Wire Landing Boards (WLB), one power supply unit and two Interface boxes or processors. PD9-64: Nine DPMs* in any combination, two Wire Landing Boards (WLB), one power supply unit and two Interface boxes or processors. The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. PD10-64: Ten DPMs* in any combination, two Wire Landing Boards (WLB). The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. 80 A of dimming current maximum in PD9 and PD10 panels.</td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>CE</td>
</tr>
<tr>
<td>Environment</td>
<td>Ambient operating temperature: 0 °C to 40 °C (32 °F to 104 °F), 0 to 90% humidity, non-condensing. Indoor use only. Door is required if LQSE-4A-D module is used and calibration point exceeds 70 °C (158 °F). See optional accessories for door models.</td>
</tr>
<tr>
<td>Cooling</td>
<td>Passive cooling</td>
</tr>
<tr>
<td>Line-Voltage Connections</td>
<td>Use copper wire only. In a feed-through panel, DIN rail-mounted terminal blocks are provided for line-voltage to DPM, and power supply wiring (if applicable). In a panel with breakers, ISO switch is provided for line voltage to MCB or RCBO breakers to power the DPM.</td>
</tr>
<tr>
<td>DIN Rail Terminal Blocks</td>
<td>Terminal blocks will accept one 0.75 mm² to 6.0 mm² (18 AWG to 10 AWG) wire or two 0.75 mm² to 1.5 mm² (18 AWG to 14 AWG) wires. Terminal blocks should be tightened to 0.60 N•m to 0.8 N•m (5.3 in-lb to 7.1 in-lb).</td>
</tr>
<tr>
<td>ISO Switch</td>
<td>3 phase 4-wire ISO switch will accept one 2.5 mm² to 35 mm² (14 AWG to 2 AWG) wire. Terminals should be tightened to 3.5 N•m (31 in-lb); 1 phase 2-wire ISO switch will accept one 2.5 mm² to 35 mm² (14 AWG to 2 AWG) wire. Terminals should be tightened to 3.5 N•m (31 in-lb).</td>
</tr>
</tbody>
</table>

* 220-240 V~  LQSE-4A-D, LQSE-4S10-D, LQSE-4T10-D, LQSE-4M-D, LQSE-2ECO-D, LQSE-2DAL-D. Use of non-Lutron® equipment in the panel voids the warranty.

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## DIN Panels and Accessories

### Specifications (continued)

<table>
<thead>
<tr>
<th>Ground Bar Terminals</th>
<th>PD4 and PD5: 25 ground termination points</th>
<th>PD8, PD9, and PD10: 50 ground termination points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miswire Protection</td>
<td>All terminal blocks are shipped with bypass jumpers installed. After verifying that each circuit is wired correctly, remove the bypass jumpers for system operation.</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td><strong>PD4 and PD5: Panel:</strong> 455 mm x 921 mm x 107 mm (17.93 in x 36.28 in x 4.21 in)</td>
<td><strong>Cover:</strong> 467 mm x 921 mm (18.38 in x 36.28 in)</td>
</tr>
<tr>
<td></td>
<td><strong>Cover Thickness:</strong> 1.5 mm (0.060 in)</td>
<td><strong>PD8, PD9, and PD10: Panel:</strong> 455 mm x 1 613 mm x 107 mm (17.93 in x 63.50 in x 4.21 in)</td>
</tr>
<tr>
<td></td>
<td><strong>Cover:</strong> 467 mm x 1 613 mm (18.38 in x 63.50 in)</td>
<td><strong>Cover Thickness:</strong> 1.5 mm (0.060 in)</td>
</tr>
<tr>
<td></td>
<td><strong>PD-36-DOOR:</strong> 485 mm x 931 mm x 40 mm (19.09 in x 36.66 in x 1.56 in)</td>
<td><strong>PD-64-DOOR:</strong> 485 mm x 1 613 mm x 40 mm (19.09 in x 63.88 in x 1.56 in)</td>
</tr>
</tbody>
</table>

**EcoSystem and DALI feeds**

| PD4-36: 1 position pre-wired to install a second MCB and RCBO breaker for LQSE-2ECO-D and LQSE-2DAL-D. |
| PD5-36: 4 positions pre-wired to install a second MCB or RCBO breaker for LQSE-2ECO-D and LQSE-2DAL-D. |
| PD8-64, PD9-64, and PD10-64: 3 positions pre-wired to install a second MCB or RCBO breaker for LQSE-2ECO-D and LQSE-2DAL-D. |

**Mounting**

Install and wire in accordance with all local and national codes. Panel may be surface-mounted or recess-mounted. Mount the panel so that line-voltage wiring will be at least 1 830 mm (72 in) from audio or electronic equipment and wiring. Mount panel using one of the following methods (mounting hardware is not provided):

- **a. Surface-Mount:** Use keyholes with bolts sufficient for 50 kg (110 lb) load, M6 bolts recommended.
- **b. Recess-Mount:** Use screws sufficient for 50 kg (110 lb) through the corners of the Control Panel. Control Panel is 104 mm (4.1 in) deep past cover mounting tabs (including pedestal).

**NOTICE:** This equipment is air-cooled. Mount in a location where the vented cover will not be blocked. 305 mm (12 in) of clearance in front of the vents is required.

**NOTICE:** Power supply will hum slightly and internal relays will click while in use. Mount in a location where such noise is acceptable.

**NOTICE:** Limit vertical stacking of PD4 and PD5 panels to 2 high. Do not vertically stack PD8 or PD9 panels.

**Construction**

- **Control Panel:** 16-gauge galvanized sheet metal (unpainted).
- **Cover:** Coated metal cover with ventilation holes. Cover is attached using phillips-head screws (included).

**Warranty**

## DIN Panels and Accessories

### Model Number Example

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number of Modules</th>
<th>Panel Size</th>
<th>Panel Type</th>
<th>Breaker Type</th>
<th>Breaker Size</th>
<th>Input Voltage</th>
<th>Panel Feed</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- **Number of Modules:**
  - 4 = 4 Modules [control panel]
  - 5 = 5 Modules [satellite panel]
  - 8 = 8 Modules [control panel]
  - 9 = 9 Modules [control panel]
  - 10 = 10 Modules [satellite panel]

- **Panel Size:**
  - 36 = 921 mm (36.3 in) Enclosure (PD4, PD5)
  - 64 = 1,613 mm (63.5 in) Enclosure (PD8, PD9, PD10)

- **Panel Type:**
  - F = Feed-through
  - B = MCB Input Breaker
  - R = RCBO Input Breaker

- **Breaker Type Country Code:**
  - U = United Kingdom
  - (blank) = Feed-through

- **Breaker Size:**
  - 10 = 10 A
  - (blank) = Feed-through

- **Input Voltage:**
  - 2 = 220–240 V～
  - (blank) = Feed-through

- **Panel Feed:**
  - L2 = 1 Phase 2-Wire Feed (63 A per input)
  - L4 = 3 Phase 4-Wire Feed (125 A per input)
  - (blank) = Feed-through

**Example:** PD8-64-RU10-2L4

- 8 module 1,613 mm (63.5 in) panel with 10 A RCBO breakers for United Kingdom and 230 V～
- 3 phase 4-wire feed

**PD8-64-RU10-2L4 Shown with components. Components sold separately.**
## DIN Panels and Accessories

### Optional Accessories

<table>
<thead>
<tr>
<th><strong>Wiring Harnesses</strong></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDW-D-1</td>
<td>Wiring Harness for Dimming Power Module</td>
</tr>
<tr>
<td>PDW-S-1</td>
<td>Wiring Harness for Switching Power Module</td>
</tr>
<tr>
<td>PDW-T-1</td>
<td>Wiring Harness for 0-10 V Power Module</td>
</tr>
<tr>
<td>PDW-M-1</td>
<td>Wiring Harness for Motor Control Power Module</td>
</tr>
<tr>
<td>PDW-ED-1</td>
<td>Wiring Harness for EcoSystem® or DALI Power Module</td>
</tr>
<tr>
<td>PDW-QS-4</td>
<td>QS Link Wiring Harness for 4 Power Modules (PD4 panels)</td>
</tr>
<tr>
<td>PDW-QS-5</td>
<td>QS Link Wiring Harness for 5 Power Modules (PD5 panels)</td>
</tr>
<tr>
<td>PDW-QS-8</td>
<td>QS Link Wiring Harness for 8 Power Modules (PD8 panels)</td>
</tr>
<tr>
<td>PDW-QS-9</td>
<td>QS Link Wiring Harness for 9 Power Modules (PD9 panels)</td>
</tr>
<tr>
<td>PDW-QS-10</td>
<td>QS Link Wiring Harness for 10 Power Modules (PD10 panels)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Terminal Block Kits</strong></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDT-DS-1</td>
<td>Terminal Kit for Dimming or Switching Power Module</td>
</tr>
<tr>
<td>PDT-T-1</td>
<td>Terminal Kit for 0-10 V Power Module</td>
</tr>
<tr>
<td>PDT-M-1</td>
<td>Terminal Kit for Motor Control DIN Power Module</td>
</tr>
<tr>
<td>PDT-ED-1</td>
<td>Terminal Kit for EcoSystem® or DALI Power Module</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Doors</strong></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD-36-DOOR</td>
<td>Reversible Hinged Door for 921 mm (36.28 in) DIN Panels</td>
</tr>
<tr>
<td>PD-64-DOOR</td>
<td>Reversible Hinged Door for 1613 mm (63.50 in) DIN Panels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Blanks/Fillers</strong></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD-BLANK-1</td>
<td>DIN Panel Blanking Plate: 1 piece</td>
</tr>
<tr>
<td>PD-BLANK-5</td>
<td>DIN Panel Blanking Plate: 5 pieces</td>
</tr>
</tbody>
</table>
DIN Panels and Accessories

Panel Door Dimensions
1 613 mm (63.5 in) panel with optional mounting door. Door can be hung as swing-left or swing-right.
DIN Panels and Accessories

**Panel Door Dimensions**

921 mm (36.3 in) panel with optional mounting door. Door can be hung as swing-left or swing-right.
DIN Panels and Accessories

Panel Door Views
Optional door available for 1 613 mm (63.5 in) and 921 mm (36.3 in) panels. 921 mm (36.3 in) panel shown.

Swing-Left

Swing-Right

Optional panel door kit includes hinges and mounting hardware that can be configured to swing-left or right. Allow 508 mm (20 in) for swing clearance. Doors have a black, powder-coated finish. Kit can be installed after panel installation, but requires removal and reinstallation of the deadfront (flat cover). Standard door has a magnetic catch.

Panel Door Models:
- PD-64-DOOR
- PD-36-DOOR
DIN Panels and Accessories

Dimensions and Mounting (PD4-36 models):
All PD4-36 models use the same enclosure. All measurements shown as: mm (in)

PD4-36-F

PD4-36-RU10-2L4
PD4-36-BU10-2L4
PD4-36-RU10-2L2
PD4-36-BU10-2L2

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**Dimensions and Mounting (PD5-36 models):**

All PD5-36 models use the same enclosure. All measurements shown as: mm (in)

- **UP**
- **Mount Panel Vertically**
- **-7° +7°**

**Side View**

**PD5-36-F**

PD5-36-RU10-2L4  PD5-36-BU10-2L4  PD5-36-RU10-2L2  PD5-36-BU10-2L2
DIN Panels and Accessories

Dimensions and Mounting (PD8-64 models):

All PD8-64 models use the same enclosure. All measurements shown as: mm (in)

Mount Panel Vertically

-7° +7°
DIN Panels and Accessories

**Dimensions and Mounting (PD9-64 models):**

All PD9-64 models use the same enclosure. All measurements shown as: mm (in)

![Diagram of PD9-64-F Panel]

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm)</th>
<th>Dimensions (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD9-64-F</td>
<td>455.4 (17.9)</td>
<td>330 (13.0)</td>
</tr>
</tbody>
</table>

Mount Panel Vertically

-7° +7°

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DIN Panels and Accessories

**Dimensions and Mounting (PD10-64 models):**

All PD10-64 models use the same enclosure. All measurements shown as: mm (in)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Mount Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD10-64-RU10-2L4</td>
<td>455.4 (17.9) x 330 (13.0)</td>
<td>-7° to +7°</td>
</tr>
<tr>
<td>PD10-64-BU10-2L4</td>
<td>1613 (63.5)</td>
<td>Side View</td>
</tr>
</tbody>
</table>

PD10-64-F

Mount Panel Vertically

UP

56 (2.2)

1159 (45.6)

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