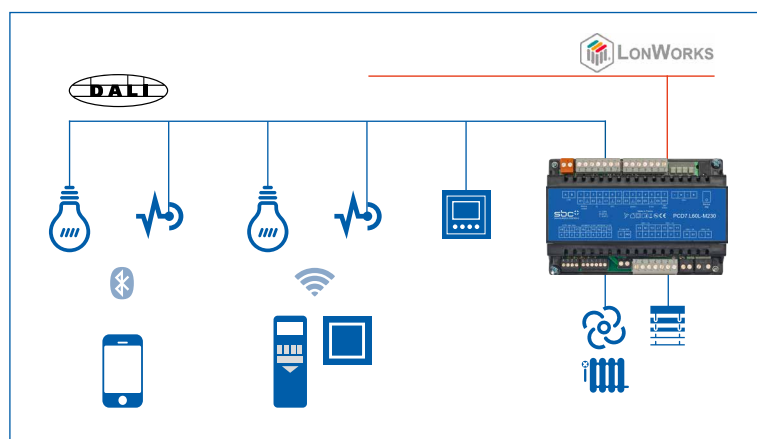


# PCD7.L60L-M230 and PCD7.L60L-M24

## CVC controller – lighting/blinds

The SBC controllers PCD7.L60L are used for cross-platform LONWORKS® networks, and are designed to improve office comfort: they are used to manage temperature and lighting. If complemented with an extension module, they can also operate blinds. They are designed to operate devices such as fan coil heaters, chilled beams, heated/chilled ceilings, etc. They can operate hot and cold water batteries with two or four ducts, with or without electric batteries. They can operate lighting supporting the DALI standard.



### Key advantages

- ▶ a single device is used to operate temperature, lighting and blinds
- ▶ direct control of two sets of blinds with 24 V or 230 V
- ▶ direct control of DALI ballasts
- ▶ 2 inlet ports for window contacts 0 to 10 V
- ▶ 2 inlet ports for 0 to 10 V
- ▶ 2 inlet ports for temperature probes
- ▶ open communication protocols:
  - LONWORKS®
  - DALI

### Functions

- ▶ Temperature control via on hot and cold valves and an electric battery
- ▶ Variable speed ventilation control
- ▶ Air quality control via air intake control or variable speed ventilation
- ▶ Upper and lower blower temperature limit and electric battery (discharge) limit
- ▶ Inlet and outlet ports are fully configurable
- ▶ Integrated testing function for the direct control of outlet ports
- ▶ Operation of lighting via on the DALI network
- ▶ Direct control of 2 sets of blinds; lifting, lowering and rotation
- ▶ Creation of a DALI network, connecting the PCD7.L60LM2x to ambient control units and multi-sensors
- ▶ Pre-configured for autonomous operation, without the need for SBC accessories (multi-sensors, ambient control units, etc)
- ▶ Possibility of adding an extension module for angle control (in this configuration, the application can operate 4 sets of blinds, 2 internally and 2 via the extension module)

### Range

|   | PCD7.L60L-M230 | PCD7.L60L-M24 |
|---|----------------|---------------|
| Two 3 point 24-0-10 V outlet ports for 0 to 10 V valves, supplied with 24 VAC / Max power 5 VA                            | •              | •             |
| Two 24 V Chrono-proportional / Start-up current 3 A / Max power 5 VA  | •              | •             |
| Two outlet ports 0 to 10 V for speed control, fresh air flow or other   | •              | •             |
| Two 24 VDC outlet ports for blind operation 24 V / 600 mA per blind set (control of Variosys blinds available on request) | –              | •             |
| Two outlet ports 230 VAC for blinds operation 230 V / 1 A per set of blinds   | •              | –             |

## Mechanical characteristics

|            |                        |
|------------|------------------------|
| Material   | ABS V0                 |
| Dimensions | L 143 × w 95 × h 65 mm |
| IP         | IP20                   |
| Weight     | 330 g                  |

## Connections

Plug-in screw terminals

Except

- DALI connection: spring-loaded terminal with 1.5 mm<sup>2</sup> hard wires
- electric battery: non-detachable screw terminal

## Standards/Warranties

DIRECTIVE 2014/35/EU "LOW VOLTAGE"

DIRECTIVE 2011/65/EU "ROHS DIRECTIVE"

DIRECTIVE 2014/30/EU "ELECTROMAGNETIC COMPATIBILITY"

## Shared inputs

### 2 digital inputs for window or auxiliary contact

- max length 100 m
- impedance less than 600 Ohms

### 2 NTC inputs, 10 kOhms

reference

- ▶ VF10-1B65NW Immersion sensors 150 mm
- ▶ VF10-5B65NW Immersion sensors 50 mm
- ▶ KTF10-2B65 Cable probes 2 m
- ▶ (CTN 20K on request)

+ or –0.1°C outside probe at 20°C

max length 3 m

### 2 digital or NTC inputs

### 2 analogue inputs for 0...10 V

## Electrical specifications

Power supply 180 to 240 V / 50 to 60 Hz

Stand-by power 1 W

Max current 4 A

Breaker protection 4 A Class D

## Network connections

4 DALI terminals, dual connection without polarity

Wiring either with 2 HO5VK wires of 0.5 to 1.5 mm  
or a single-pair SYT1 cable of 0.9 mm<sup>2</sup>

DALI outlet port: Max current, 200 mA

Ports:

LON: 2 terminals, certified LON cable (e.g., Belden 7701NH)

## Environment

Operating temperature 5°C to +45°C

Storage temperature –20°C to +70°C

Relative humidity +20% to +90% without condensation

## Shared outlet ports

1 relay port S1 / 230 V / 3 A maximum

- port for fans or variable speed flap motors

4 outlet ports 0 to 10 V, 2 mA max

- 2 for control of variable speed motors or other
- 2 for valves (refer to table below)

Dry contact NO/NC

- Max power 1 kW resistive for alternate current; max 5 A;  
16 A max on start-up
- Maximum number of manoeuvres: 300,000
- Max. 230 V

Continuous power supply of 24 VDC / 12 VA supporting the following valves:

- chrono-proportional valves 24 VDC  
(or 24 VAC, subject to approval by our technical department)
- thermal valves 0 to 10 V, 24 VAC or 24 VDC with software configuration
- motor-operated valves 24 VDC/AC  
(an external 230 V/24 VAC transformer is required for 24 VAC valves)

Outlet ports for blinds:

For PCD7.L60L-M230:

2 outlet ports for blinds 230 V / 1 A per set of blinds

For PCD7.L60L-M24:

2 outlet ports for blinds 24 V / 600 mA per set of blinds

Optional support for Variosys blinds is available on request

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