

LSS



PowerDim WM

The LSS *PowerDim WM* is a compact dimmer for wall mounting with either 24x3kVA or 12x5kVA circuits. For each circuit an operating modus Dim or a NonDim can be defined and each circuit can be switched via bistable relays. Both operating modes are designed for resistive, inductive and the NonDim additionally for capacitive loads. Each circuit is individually protected with an MCB. Optionally the circuit breakers can be extended by RCD (4x 6 circuits) or replaced by single RCBO.

The LSS *PowerDim WM* dims without a base load. For dimming fluorescent lamps with heat resistors, for each circuit a base load can be switched-on. Each circuit has 13 dimmer curves and can be optionally controlled with 8Bit or 16Bit. All settings of the circles can be made individually or according to the principle "one for all".

The LSS *PowerDim WM* is controlled via Ethernet or DMX. The control unit is equipped with an Ethernet / DMX network node that works as a RDM Proxy.

Technical Specifications:

PowerDim WM Processor

Generals

Display	Text display with 20x4 characters and white background lighting
Indication	3 LEDs: 1x Power Supply, 1x Error, 1x Network
Diagnosis Indication	Rotary display of various device parameters during operation
Monitoring display	Various displays of events, settings and data traffic and merging
Controlling	8-Bit/16-Bit, manually adjustable
Circuit monitoring	Overload protection with single phase monitoring, manual adjustment of the max. Load per phase and max. Total load
Behaviour at over temperature	- Warning and shutdown - Thresholds manually adjustable
Operation	Local: Menu control with encoder and menu display Remote: Configuration via ConfigCore

Interfaces

DMX	DMX-Out: 2x 5pin XLR DMX-In: 1x 5pin XLR, HTP DMX-THRU: 1x 5pin XLR (ISOLATED according to ANSI E1.11 A1)
Ethernet	1x RJ45 10/100 Mbit/s, Range and duplex mode manually adjustable
Supported network protocols	sACN, RDM, Art-Net, AVAB-IPX, AVAB-UDP, Shownet

Dimmer

Operating modes	- Phase fired dimmer for all light bulbs, halogen lamps and conventional transformers - Switchover for electronic ballasts with manually adjustable switching points - "Always-On" at direct rated power
Dimmer	- Setting individually or „one for all“ - switchable base load - 8Bit/16Bit control - 13 dimmer curves - Adjustable fade-in/fade-out times - Adjustable min. and max. dim values - Off, Hold and adjustable backup-level in case of lost data receiving

Relays

Switching Voltage	Max. 440V AC
Switching Current	Max. 50A
Lifetime	Mechanical: >10 ⁶

Device protection

Power protection supply	- max. 100A - must be external
Power protection load	MCB per circuit Optionally - MCB per circuit & RCD per 6 circuits - RCBO per circuit
Current Control	Internal current measurement (single phase / sum) incl. Voltage & frequency monitoring, automatic switch-off adjustable

Connections

Internal	3kVA 4mm ² connecting terminal 5kVA 6mm ² connecting terminal
Optional Plug Connectors	CEE 7/x (230V/16A) 2-pin + Ground (253V/16A) for 3kVA DBS 2-pin + Ground (230V/16A) for 3kVA DBS 2-pin + Ground (230V/26A) for 5kVA 16-pin + Ground (250V/16A) for 3kVA

Power Supply

Voltage/Current	400V AC/max.100A
Connection	Internal connecting terminal max. 50mm ²

Cooling

Cooler	- 2x 12V DC, brushless, 26dB(A) each - Temperature controlled switch on/off
Temperature control	- Adjustable warning level - Automatic shutoff

Electrical characteristics

Loss of the dimmable circuits at 100% output and rated load	5kVA: <65W 2,5kVA <35W
Rise-time	180μs
Minimum load	Not necessary

General

EMV-Standards	EN 55022, class B, FCC part 15, level B
Electrical supply	400V/50Hz
Current consumption	Max. 50A per phase
Operation temperature	0° - 60°C
RoHS	Conform
Material	Aluminium
Colour	Black and blue anodised
Dimensions	(H x W x D mm) 1106 x 555 x 155
Weight	Ca. 70kg
Scoop of delivery	<ul style="list-style-type: none">- 1x Device- 1x RJ45 plug- 1x Cable fittings

Order number

Power	Power protection load		
	RCBO	MCB & RCD for 6 circuits	MCB
24x 3kVA	L02013-11	L02013-12	L02013-13
12x 5kVA	L02013-21	L02013-22	L02013-23