LSS

PowerDim 2

The LSS PowerDim 2 is a portable, decentralised thyristor dimmer with six Dim/NonDim circuits and a power range of 3 kVA. The dimmer circuits can be controlled via either Ethernet or DMX and offer full RDM support. The LSS PowerDim 2 features a switchable electronic base load for each circuit, adjustable fade-in/fade-out times and dimming values, an adjustable 8-bit/16-bit control, 16 dimming curves and a bypass circuit for the dimming circuits at 100% load. Each phase is monitored for current and can be automatically shut down in the event of an overload.
The LSS PowerDim 2 is housed in an anodised extruded aluminium profile, whose unique thermal conductivity enables fanless convection cooling. The dimmer can be fitted with all standard connectors. LSS dimmers automatically detect the mains frequency range (50 Hz / 60 Hz).

Performance specifications:

- Up to 6 Dim/NonDim circuits
- Bypass circuit for reducing the power dissipation of the dimmer circuits at maximum load
- 8Bit/16Bit control
- Internal switchable base load
- 16 internal dimmer curves
- Adjustable fade-in / fade-out times
- Internal current measurement (single phase / sum) incl. voltage & frequency monitoring, automatic switch-off adjustable
- Control via Ethernet or DMX
- Control unit includes Ethernet / DMX node, remote configurable
- Useable as RDM proxy
- Housed in anodized aluminum extrusion profile
- Fanless cooling via housing

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Artikelnummer

Item number	Configuration
L02011-24	6x 3 kVA Dim/NonDim to Schuko and parallel multi-pin connectors, supply 400 V/32 A

Technical Specifications:

PowerDim Processor

Generals

Mechanical design	Ready-to-use unit in duct configuration
Operation	local: Menu control with encoder and menu display remote: Configuration using LSS 'ConfigStudio' software
RDM	RDM reporting of all settings and measured values
Display	Text display with white backlighting (4 lines of 20 characters each)
Ambient temperature	0 °C – 40 °C
Operating temperature	0 °C – 60 °C
Device cooling	Passive via housing
RoHS compliant	Yes
Protection rating/protection clas	IP 20 / SK I
Colour Housing	Aluminium, black anodised
Dimensions (W x H x D)	770 x 210 x 250 mm
Weight	25.6 kg
Scope of delivery	- Dimmer - 2 m connection cable with CEE plug (H07RN-F5G 400V/32A)

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 ANSI E1.31 R2018, sACN-DD, RDM-Net ANSI E1.33 (2019), Art-Net 4, AVAB-IPX, AVAB-UDP, ShowNet

Device function

Operating modes	Dimmer:	Phase-cut dimmers for all resistive and inductive loads encountered in practical operation
	NonDim:	Switching with an adjustable switching point (e.g. electronic ballasts for fluorescent lamps and other loads)
Dimmer	- Global or individual circuit settings - Switchable base load - Bypass circuit at 100% load - 8-bit/16-bit control - 16 dimming curves - Adjustable fade-in and fade-out times - Adjustable minimum and maximum dimming values - Off, Hold and adjustable backup values in the event of a signal loss	
NonDim	- Bistable relays - Off, Hold in the event of a loss of signal - Adjustable switching points - For all types of load	

Power supply

400 VAC/32 A	- Multi-pin connector - 2.0 m connection cable with CEE connector (400 V/32 A, 5-pin)
EMV-Standards	EN 55022, class B, FCC part 15, level B

Equipment protection

Coverage of the benefit groups	MCB (circuit breaker) or RCBO (RCD/circuit breaker) per circuit
Power monitoring	Overload protection with single-phase monitoring, manual setting of the maximum load per phase with adjustable cut-off thresholds, and maximum total load with an adjustable total cut-off threshold and prioritisation of individual circuits

Electrical specifications

Power dissipation in dimmable circuits	Max. 30 W per power circuit at 100% duty cycle and rated load
Risetime	180 µs
Mains frequency	50±3 /60±3 Hz
Minimum load	0 VA (nicht erforderlich), für Stromüberwachung 150 W

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