LSS



PowerDim RM 2

19" Thyristor dimmer with 12x 3 kVA, switchable electronic base load, cooling management, and protection according to DIN EN 61009-1

The LSS PowerDim RM 2 is a compact 19"/3U phase control dimmer for installation in rack systems and flight cases. The dimmer has 12 power circuits á 3 kVA with RCBO individual circuit protection and shutdown even if there is no neutral conductor. The dimmer fulfills DIN EN 61009-1 (VDE 0664-20) for the protection of people against indirect contact. Each circuit has a Dim / Non-Dim switch, a bypass switch at 100% load, an adjustable 8-bit / 16-bit control, and 16 dimmer curves. For the connection of lights with low loads (e.g. fluorescent tubes, LEDs, etc.), the device is equipped with a switchable electronic base load. The use of high-quality chokes significantly prevents lamp clinking and electrical interference. Each circuit is current-monitored and can be prioritized in the control.

The LSS PowerDim RM 2 is designed for continuous use. A sophisticated temperature and cooling management with temperature monitoring and fan control enable permanent and quiet cooling of the device. The dimmer can be controlled either via DMX or Ethernet (sACN, Art-Net, etc.). The control unit is equipped with an Ethernet / DMX network node with an RDM proxy function.

Technical Specifications:

Generals

Mechanical construction	3U ready-to-use device for 19" rack systems		
Operation	Local: Menu control with encoder and menu display		
	Remote: Configuration via ConfigStudio		
RDM	RDM notification of all settings and measured values		
Display	Text display with 20x4 characters and white background lighting		
Ambient temperature	0 °C – 40 °C		
Operating temperature	0 °C – 45 °C		
RoHS Approval	Compliant		
IP Class / Appliance clas-	IP 20 / Class I		
ses			
Color	Body: Aluminum, powder-coated, black matt structured		
	Front panel: Aluminum, powder-coated, cobalt blue		
	matt structured		
Dimensions (H x W x D)	483 x 133 x 441 mm (19"/3U)		
Weight	Ca. 25,5 kg		
Scoop of delivery	1x Dimmer device inclusive connection cable (1.5 m) and con-		
	nector 32A CEE 5-pin		
Order number	L02020		

Dimmer						
Operating modes	Dimmer:	immer: Phase control dimmer for all ohmic/inductive				
		loads occurring in practical operation				
	NonDim:	Switching with adjustable switching point				
		(e.g. electronic ballasts from Fluorescent lamps				
		and other loads)				
Dimmer	- Global c	- Global or single circuit setting				
	- Switcha	ble base load				
	- Bypass o	- Bypass circuit at 100% load				
	- 8Bit / 16Bit control					
	- 16 dimn	- 16 dimmer curves				
	- Adjustal	- Adjustable fade-in and fade-out times				
	- Adjustal	Adjustable minimum and maximum dimming values				
	- In case of	In case of failure, Off, Hold, and adjustable backup values				

DMX	Front:	DMX-Out:	2x 5 pin XLR		
DIVIA	Tronc.	DMX-In:	1x 5 pin XLR		
		DMX-THRU:	1x 5 pin XLR		
	Back:	DMX-ITIKO.	1x 5 pin XLR		
	Dack.		•		
	DMX-THRU: 1x 5 pin XLR (Galvanically isolated asserting to ANSI E1 11 A1)				
Cth ama at ha al.	(Galvanically isolated according to ANSI E1.11 A1)				
Ethernet back	1x RJ45 10/100 Mbit/s, Range and duplex mode manually adjustable				
Network protocols	Art-Net, AVAB-IPX, AVAB-UDP, ShowNet, sACN				
Device protection	Per circuit:	1v DCDO C16	A 20 mA 1D + N independent of		
Protection of the power circuits	Per circuit.		A, 30 mA, 1P + N, independent of		
RCBO certifications	mains voltage				
KCDO CEITIICATIONS	DIN EN 61009-1 (VDE 0664-20):2016-10				
	DIN EN 61009-2-1 (VDE 0664 Teil 21):1999-12				
	DIN EN 62019 (VDE 0640):2015-07				
	DIN V VDE V 0664-220:2010-07 DIN EN 62423 (VDE 0664-40):2013-08				
Current Control	Overload protection with individual phase monitoring, manual				
Current Control	setting of the maximum load per phase with adjustable switch-off				
	thresholds and maximum total load with adjustable total switch-				
	off threshold, and prioritization of individual circuits				
	on threshold	, and prioritiza	tion of individual circuits		
Connections					
Back side	2x multicore connectors 16-pin + PE (250 V / 16 A) for six dimmed				
	power circuits each				
Power Supply					
Voltage/Current	400 V / 32 A, CEE 5-pin				
EMC standards	EN 55022, class B, FCC part 15, level B				
	1				
Cooling	Ι_				
Cooler	Temperature controlled (max. 30 dBA)				
Temperature control	- Adjustable warning and switch-off threshold				
_	- Automati	c switch-off			
Electrical characteristics					
Power loss dimmable cir-	Max. 30 W per power circuit by 100% power output				
cles	and nominal load				
	180 μs				
Rise time	100 H3				

0 VA (not necessary), for current control 150 W

Minimum load