

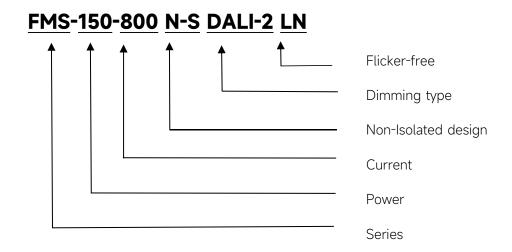
150W DALI + PUSH+NFC Dimming power supply



♦ Description

FMS-150-800 N-S DALI-2 LN is a 150W constant current LED driver that operates from 198-264Vac input with 200 to 800mA output current and a forward voltage range from 64 to 300Vdc. The output current is adjustable by NFC. With it's compact dimensions from 360x30x21mm it is easy to integrate in linear light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code



Stock code: 002922





◆ Specification

	Constant Current	200-800mA
	Voltage Range	64-300VDC
	Unload voltage Max.	<350V RMS
Output	Current Accuracy	±5%
	Output HF current ripple(>1KHz)	±15%
	Output LF current ripple(≤120Hz)	±3%
	SVM	≤0.01@Full Load
	P _{st}	≤0.05@Full Load
	Efficiency(Typ.)	95%
	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Rated input voltage(DC)	198-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9
المسالة	Power Factor	>0.95
Input	Input Current	0.85A max.
	Start-up time	<0.7S
	No Load Power	<0.5W
	Standby Power	<0.5W
	Network standby power	<0.5W
	THD (Typ.)	10%
	Dimming	YES
	Dimming mode	DALI-2 (IEC 62386-101,102,207,251,252,253) & Push Dimming (Corridor
Dimming	Diffilling friode	Function)
	Dimming depth	1.5%
	Dimming current range	1.5%~100%
	Over Load Protection	103-120%
		YES/Latch off
Drotoction	O Valta D	<350V RMS
Protection	Over Voltage Protection	YES/Latch off
	Short circuit Protection	YES/Latch off
	Over Temperature Protection	YES/Auto Resume
	Operating Temperature	-25℃~+60℃
	Humidity	20%-90%RH
Environment	Тс	85°C
	Storage Temperature	-25°C~+60°C
	Lifetime	>50000h,@Tc=85°C, >100000h,@Tc=75°C

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FMS-150-800 N-S DALI-2 LN

Surface	Dimension	360x30x21(LXWXH)mm		
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;			
Others	ErP	EU 2019/2020		
	RoHS	RoHS (2011/65/EU) (EU)2015/863		
DALI performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2,including part251,252,253)			
Note	 1.All parameters NOT specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered. 			

Parameter

	Output				
Number	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	
*1	200mA	64-300VDC	350	60	
2	•••				
3	400mA	64-300VDC	350	120	
4	•••				
5	800mA	64-187.5VDC	350	150	

^{*} Factory default

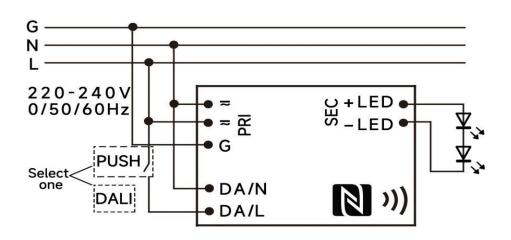
♦ Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
41.8A	304μ s	6pcs	10pcs	12pcs	9pcs	15pcs	18pcs

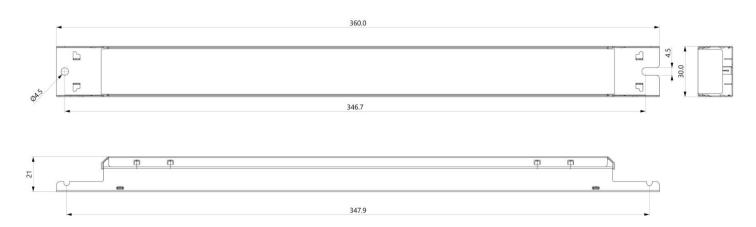
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♦ Wiring diagram



♦ 2D diagram



♦ Wiring & Connections

	Specification item	Value (Unit)	
	Input wire cross-section	0.51.5 mm2	
Input	Input wire gauge.	1620 AWG	
	Input wire strip length	79mm	
Output	Output wire cross-section	0.51.5 mm2	
	Output wire gauge.	1620 AWG	
	Output wire strip length	79mm	

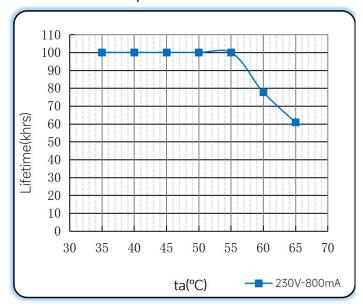
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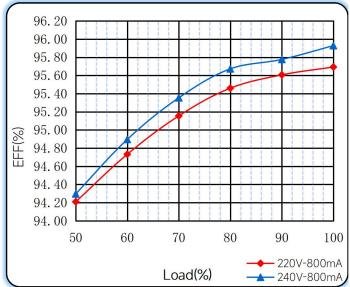


◆ Curve for FMS-150-800 N-S DALI-2 LN, Io=800mA

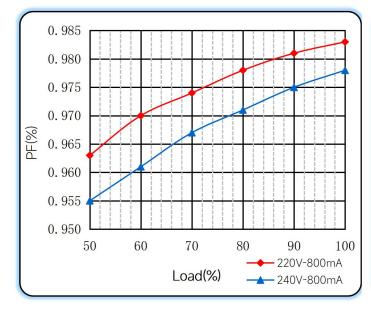
Lifetime vs. Temperature Curve



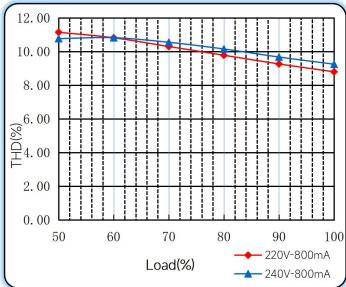
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



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♦ Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push	<0.5s	LED on: Save current brightness level		
twice	<0.55	LED off: Delete saved level and turn on at 100% brightness		
Short push five	~7 ₋	Ouit Consider reads		
times	<3s	Quit Corridor mode		
Long push	0.5-14s	Dimming up or down		
Long push	15s-2mins	Sync all LEDs to be 100% brightness		
		Enter Corridor mode - LED keep 100% brightness for 2mins.		
Long push	>2mins	Then brightness will turn to be 10% within 32s if no action during 2mins		
		100% brightness.		

Note:

1. The factory default brightness is at 100%.

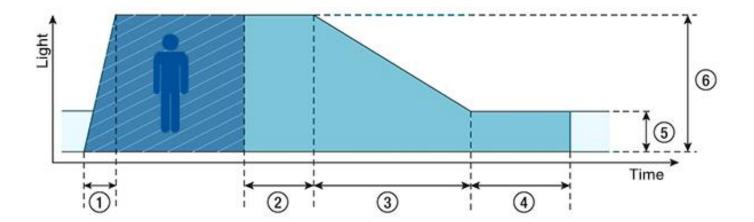
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

3. The maximum length of the cable from the push button to the last driver is 200 meters.

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Corridor mode

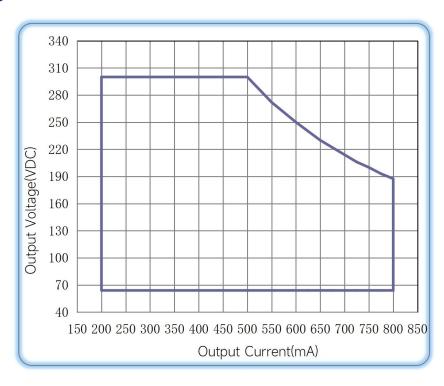


- ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- **②Run-on time(120s):** the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.
- (3) Fade time(32s): the time during which the luminous intensity is faded from the presence value to the absence value.
- **Switch-off delay** (Never Off): the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.
- **⑤**Absence value(default: 10 %): the luminous intensity when there is no person present.
- **©Presence value (default: 100 %):** the luminous intensity when persons are present.

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♦ Operating window



Operating window 100%

Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/05/15
Start-up time	0.5\$	0.7S	В	2022/08/12
update software			С	2024/01/22

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Manual

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