

The SmartLight DALI-2 DT8 NFC (Near Field Communication) Driver delivers adjustable power from 5W to 23W, providing precise and customisable lighting control. Programming current settings via NFC with a smartphone is effortless, eliminating the need for physical access to the driver. It ensures smooth, flicker-free dimming and fully complies with the DALI-2 DT8 standard.

Built with robust surge protection and thermal safeguards, this driver warrants reliable operation and an extended lifespan. It integrates seamlessly with Control4’s certified control driver and other major lighting platforms, enabling easy installation and system integration.

Perfectly suited for commercial environments such as retail spaces and offices, the SmartLight DALI-2 DT8 NFC Driver offers high-quality, energy-efficient lighting with straightforward deployment. Compact yet powerful, it is certified to the latest DALI-2 standards and provides precise dimming control through NFC technology with fine adjustment in 1-mA increments.

Supporting a wide dimming range from 0.5% to 100%, it is ideal for applications demanding constant light output (CLO) and emergency lighting compliance. Backed by a 3-year warranty and offering a nominal lifetime of up to 100,000 hours, this driver delivers dependable performance in demanding commercial lighting environments.

Features

- DALI-2 Certified**
The driver is certified to DALI-2 standards ensuring compliance and interoperability within modern DALI lighting systems.
- Easy NFC Current Setting**
Output current can be easily and quickly adjusted via Near Field Communication (NFC) in precise 1-mA steps, simplifying customisation and installation without manual wiring changes.
- High Efficiency & Low Standby Losses**
With an efficiency of up to 88% and low standby power consumption of only 0.4W, the driver delivers energy savings and reduces operational costs.
- Wide Dimming Range**
Supports high-quality dimming from 0.5% to 100%, enabling smooth and versatile light control suitable for various applications.
- Constant Light Output (CLO)**
Maintains consistent light output over time despite LED aging or temperature changes, ensuring stable illumination.
- Emergency Lighting Compatibility**
Designed for use in emergency lighting systems, meeting safety and reliability requirements.
- Long Lifetime & Warranty**
Boasts a nominal lifetime of up to 100,000 hours and comes with a 3-year warranty, highlighting product durability and reliability.
- Compact Design & Miniaturisation**
Its compact size allows easy integration into luminaires, supporting modern, space-saving lighting designs.
- Sustainable & Reliable**
Employs a sustainability-driven design with high reliability, making it suitable for a wide range of commercial lighting environments such as retail shops, malls, supermarkets, and offices.



Product #	Description	Power	Output Voltage Range
SL-94220001-23W-EU	DALI-2 DT8 NFC 23W	23W	2.5 – 46 V DC
SL-94220001-15W-EU	DALI-2 DT8 NFC 15W	15W	2.5 – 46 V DC
SL-94220001-12W-EU	DALI-2 DT8 NFC 12W	12W	2.5 – 46 V DC
SL-94220001-8W-EU	DALI-2 DT8 NFC 8W	8W	2.5 – 46 V DC
SL-94220001-5W-EU	DALI-2 DT8 NFC 5W	5W	2.5 – 46 V DC

Specifications

	Product Model #	SL-94220001-23W-EU	
Main Features	Output Type	Constant Current	
	Dimming Type	DALI-2 / Touch Dim	
	Output Current Setting	NFC / DALI	
	Output Features	Isolation	
Input	Rated Supply Voltage	220 – 240V	Nominal Range
	Input Voltage	198 – 264 V AC	
	Mains Frequency	0/ 50 /60 Hz	Range: 0/47 – 63 Hz
	Vin DC Operation	180 – 280V DC	
	Input Current	≤0.12A Max	
	Input Power	≤26.3W Max	More MCB-types in design-in guide
	Standby Power	0.4W	230V (DALI system DIM to off)
	Efficiency	88%	230V/50 Hz at full load
	Total Harmonic Distortion	<11%	230V/50 Hz at full load
	Power Factor	0.95	
	Inrush Current (peak / duration)	≤7.9A / 2.6 µs	230V/50 Hz at full load
	Breaker Rating: 10A (@230 V AC)	Type A: 24pcs Type B: 39pcs Type C: 63pcs	
	Breaker Rating: 16A (@230 V AC)	Type A: 24pcs Type B: 63pcs Type C: 101pcs	
	Breaker Rating: 20A (@230 V AC)	Type A: 49pcs Type B: 79pcs Type C: 126pcs	
	Isolation Input to Output	Yes	

Specifications

Output	Output Voltage	2.5 – 46 V DC	Forward Voltage
	Max. Output Voltage	60 V DC	No Load Voltage (u-out)
	Output Current	80 – 700mA	NFC default @ 80mA
	Output Current Min. Dimming	3.5 mA	
	Output Current Tolerance	±5%	Output current is mean value.
	Output LF Current Ripple (< 120 Hz)	±3%	Ripple = (Imax-Imin) / (Imax+Imin)
	Output P_ST_LM (at full load)	≤ 1	at full load
	Output SVM (at full load)	≤ 0.4	at full load
	Starting Time (AC mode)	≤0.8S	230 V/50 Hz at full load
	Starting Time (DC mode)	≤0.4S	
	Switching Over Time (AC/DC)	≤0.4S	
	Output Power	0.38- 23.1W	
Controls Input	Control Method	Corridor Mode, DALI, Push-button	
	DALI Part(s)	101, 102, 207, 251, 252, 253.	EN 62386
	Dimming Range	0.5 – 100 %	
	NFC Current Setting	PC	
	Isolation Controls Input to Output	Basic	
	Short Range Reader	Feig ID CPR30; Feig ID ISC.PRH101; Feig ID ISC.MR102;	Antenna: Feig ID ISC. ANT40/30, Feig ID ISC. ANT100/100
	Long Range Reader	Feig ID ISC.LRM1002	Antenna: Feig ID ISC. ANT310/310
Protection	A-weighted Sound Level	<25dB	at 15cm
	SELV/Non-SELV	SELV	
	Over Voltage Protection	320AC 48 Hours	
	Short Circuit Protection	Yes	Auto Recovery
	Open Circuit Protection	Yes	Auto Recovery
	Overload Protection	Yes	Auto Recovery
	Over Temp Protection	Yes	
	Hotplug-in/switch at Secondary	No	
	For Fixtures Protect Class	II	Per IEC60598
	Insulation Voltage	3000V, 5mA, 60s	Between P-S
	Insulation Resistance	> 100 M Ohm	At 500 VDC L-N to PE
	Leakage Current	< 700 µA, I/P to O/P	At 230V input

Environment	Ambient Temp (ta)	-20°C to +50°C	Higher ambient allowed if Tcase-max is not exceeded
	Ambient Temp (lifetime max)	40°C	
	Max Casing Temp (tc)	85 °C	
	Storage Temperature (ts)	-20°C to +85°C	
	Max Housing Temp	110°C	In case of a failure
	Relative Humidity	10% to 85%, not condensed, max 56 days/year	
Wiring & Connections	Input Wire Preparation	0.5 – 1.5 mm² / 8-9mm	20 to 16 AWG, WAGO744, solid wire
	Output Wire Preparation	0.5 – 1.5 mm² / 8-9mm	20 to 16 AWG, WAGO744, solid wire
	Control Wire Preparation	0.5 – 1.5 mm² / 8-9mm	
	Maximum Cable Length	2 m	
Standards	Certificates/Compliance	RCM/CE/ENEC/SAA/UKCA/EAC/CB	
	Safety Standards	EN61347-1:2015/ A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/ A1:2021; BS EN61347-2-13:2014/A1:2017; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016	
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019	
	Performance	EN 62384	
	DALI Performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2)	including part 251, 252, 253
	Mains Surge Capability	1kV	between L – N
	Mains Surge Capability	2kV	between L/N – PE
	Surge Voltage at Output side	<0.5kV	against PE
Miscellaneous	RoHS	2011/65/EU	
	Mounting type	Build-in	
	Dimension (L x W x H)	128 x 30 x 21mm	
	Lifetime	up to 100,000 h	
	Warranty	3 Year	