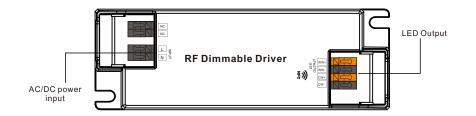
10W RF NFC Enabled LED Driver(Constant Current) ② 张 (E 出 愈 @ ⑧ EL SELV (Warranty) PROHS

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	2							
	DC Voltage	3-42V, Max. 50V							
	Current	100-500mA via NFC tool; Min.current gear lower to 0.1mA, default 250mA							
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load							
	Rated Power	Max. 10W							
	Voltage Range	220-240VAC/220-240VDC							
	Absolute Voltage Range	196-264VAC/196-264VDC							
	Frequency Range	0/50/60Hz							
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load							
	Total Harmonic Distortion	THD \leq 15% (@ full load / 230VAC)							
Input	Efficiency (Typ.)	> 75% @ 230VAC full load							
	AC Current (Typ.)	0.1A Max.							
	Inrush Current (Typ.)	Max. 4.32A at 230VAC; 80µs duration							
	Leakage Current	< 5mA /230VAC							
	Anti Surge	L-N:2KV							
	Dimming Interface	RF(Sub-G)							
Control	Dimming Range	0.01%-100%@ Max current							
Control	Dimming Method	Amplitude/CCR dimming							
	Dimming Curve	Linear/ Logarithmic optional							

	Short Circuit	Yes, remove the fault conditions and re-power the device.						
Protection	Over Current	Yes, remove the fault conditions and re-power the device.						
	Over Temperature	Yes, remove the fault conditions and re-power the device.						
	Working Temp.	-25℃ ~ +45℃						
F action and the	Max. Case Temp.	Tc=85℃						
Environment	Working Humidity	10% ~ 95% RH non-condensing						
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH						
	Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023						
	Withstand Voltage	I/P-O/P: 3.75KVAC						
Safety & EMC	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH						
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021						
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11						
Others	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature						
Others	Dimension	101x36x25mm (L*W*H)						
	Warranty	5 Years						

• Dimmable LED driver. Max. output power 10W

- 100-500mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- Dimming curves/Target current/Power-on behavior settings via NFC program tool.
- \bullet Class ${\rm I\!I}$ power supply, full isolated plastic case
- High power factor and efficiency
- Radio Frequency : Default 869.5/916.5(1009 Version) , Available 868/434mhz(2504 Version)
- To switch and dim Tunable White LED lighting fixtures
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with a variety of RF remotes
- \bullet IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

• DO NOT install with power applied to the device.

• DO NOT expose the device to moisture.

Pairing devices with RF remote

1.Do wiring according to connection diagram.

2.Pair RF Driver with RF remote: please refer to the instruction of the remote that you would like to pair with.

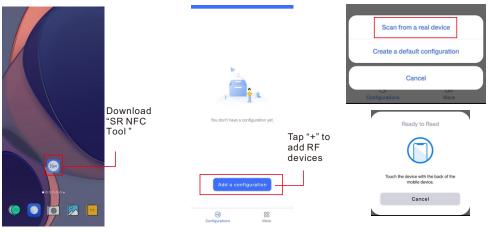
With NFC Programming devices

Note

- 1) Do wiring according to the wiring diagram.
- 2) Recommend setting parameters without power-on the RF devices .
- 2) Please make sure your mobile phone has NFC function and enable it.

Working with "SR NFC Tool" APP

Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play). Then open the APP.



Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .

- 2. Please Make sure that the "NFC position" is matched.
- 3. Please do not power on the device before setting.
- 4. If you can't download "SR NFC Tool". Please contact with us.

Step 2: Add device, and name it as you wish.

Cancel	Add configuration	Save
Device Type	e	RF CCT
Product Id	0:	x05000002
Hardware v	ersion	1 (0x01)
Software ve	ersion	1 (0x01)
Dimming cu	irve D/	ALI Standard
Power on st	tate	Latest
On off trans	ition time	5
Target curre	ent	300.0mA
Minimum ci	urrent compensation	0.00%
Willing Co	arrent compensation	0.00%
Enable pairi	ing	Ignore



Config	gurations +
15W CCT RF CCT	>

Step 3: Unlock device, enter parameters configuring page. Hardware versio Ø Device Type RF CCT Locked Device Type RF CCT Unlock it Software version Product Id 0x05000002 Product Id 0x05000002 Dimming curve Hardware version 1 (0x01) Options Power on state Software version 1 (0x01) Hardware version 1(0x01) > Dimming curve DALI Standard Software version 1 (0x01) > transition time Power on state Latest Dimming curve DALI Standard > Target current On off transition time Power on state Latest > Minimum current compensati Target current 300.0mA On off transition time 5 > Enable pairing Minimum current compensa Target current 300.0mA > Enable pairing Ignore Minimum current compensation 0.00% > Enable pairing lanore Select All

Note: 1. You have to unlock the device then do some settings

2. Only when the corresponding function is selected, the function interface will be displayed.

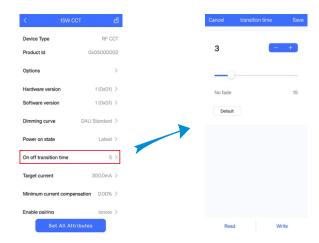
Step 4: Few parameter interface, you can choose the setting based on your requirements.

< 15W C	сот е
Device Type	RF CC
Product Id	0x0500000
Options	2
Hardware version	1 (0x01)
Software version	1 (0x01)
Dimming curve	DALI Standard
Power on state	Latest 2
On off transition time	5 3
Target current	300.0mA 3
Minimum current compe	ensation 0.00%
Enable pairing	lanore 3
Set All Att	ributes
< 15W C	ст с
Device Type	RF CC
Product Id	0x0500000
Options	
	:
Hardware version	1 (0x01)
Hardware version Software version	1 (0x01) 2 1 (0x01) 2
Hardware version	1 (0x01)
Hardware version Software version	1 (0x01) 2 1 (0x01) 2
Hardware version Software version Dimming curve	1 (0x01) 2 1 (0x01) 2 DALI Standard 2
Hardware version Software version Dimming curve Power on state	1 (0x01) 2 1 (0x01) 2 DALI Standard 2 Latest 2
Hardware version Software version Dimming curve Power on state On off transition time Target current	1 (0x01) 3 1 (0x01) 3 DALI Standard 3 Latest 3 5 3 300.0mA 3
Hardware version Software version Dimming curve Power on state On off transition time Target current Minimum current compri	1 (0x01) (1 (0x01) (DALI Standard (Latest (300.0mA (ansation 0.00% ()
Hardware version Software version Dimming curve Power on state On off transition time Target current	1 (0x01) 2 1 (0x01) 2 DALI Standard 2 Latest 2 300.0mA 2 ansation 0.00% 2 Ignore 2

1) We bring well-praised "DALI" dimming curve to this product, to ensure you have the smooth dimming performance in RF NFC drivers.

2) Besides that, we have the other dimming curves available with intutive graphs, enables you shall find your ideal one.

1) Off: Always Off after power on. 2) On: Always On after power on 3) Latest: Restore to last light level after power on



1) 0(No fade): Fatest transition
2) 15: Longest transition
3) 3(Default): Soft transition

<	15W CCT	6	
Device Type		RF CCT	
Product Id	0>	05000002	
Options		>	
Hardware ve	rsion	1 (0x01) >	
Software ver	sion	1 (0x01) >	
Dimming cur	ve DALI	Standard >	
Power on sta	te	Latest >	
On off transit	ion time	5 >	
Target currer	nt :	300.0mA >	
Minimum cur	rent compensation	0.00% >	
Enable pairin	a	Ignore >	

Cancel	Enable pairing	Save
Enable pair	ring	
Clear all pa	ired devices	
Ignore		\checkmark

I) Enable Pairing: The driver will enter the pairing mode and work with RF remote

2) Clear all paired devices: Cleaning paired devices (Seldom use)

3) Ignore: When you about to set other parameter please select this, otherwise the devices statues shall be re-write which is not your willing.

RF CCT Device Type 0x05000002 Product lo Options 1 (0x01) > Hardware version 1 (0x01) > Software version Dimming curve DALI Standard > Power on state Latest > On off transition time 5 > 300.0mA Target current Minimum current compensation 0.00% Enable pairing lanore >



Read

Write

Write

Input the working current of the LED.

Min.0.1mA per gear as a option.

Which massively free the options among different luminaries specification

Tips

1. NFC function doesn't require any power driver.

2. Many functions can be configured by NFC. Kindly check your desired functions.

3. All of our RF NFC drivers are in the best performance within OUR Remotes.

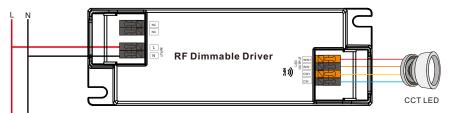
4. This is a 2-channel output product, so we recommend ensuring that both loads are connected and have the same loads for each channel at the same time during testing.

5. For 1 channel fixtures, please make sure you have our 1 channel drivers connected.

6: Read before you Move.

Wiring Diagram

With 4-wire CCT LED luminarie





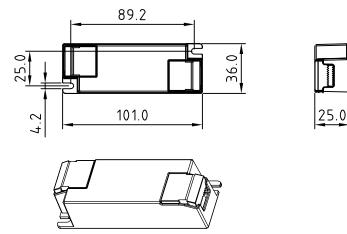
<	15W CCT		ර
Device Type		RF C	ст
Product Id	Ox	050000	02
Options			>
Hardware version		1 (0x01)	>
Software version		1 (0x01)	>
Dimming curve	DALIS	Standard	>
Power on state		Latest	>
On off transition t	ime	5	>
Target current	3	100.0mA	>
Minimum current	compensation	0.00%	>
Enable pairing		lanore	>

Cancel	Minimum current compe	. Save	
1000 Value ra	0 nge 5000-20000	0.00%	
			Current compensati
			Enables you achiev per different currer
			But still we gave the customized setting.

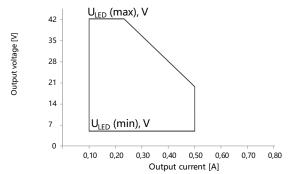
Read

Current compensation setting: Enables you achieve the best dimming performance per different current gear. But still we gave the options to customers which enable

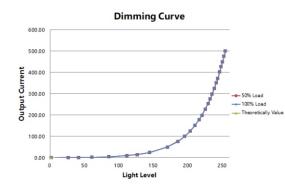
Product Dimension



Operating window

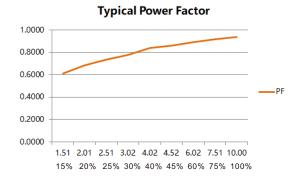






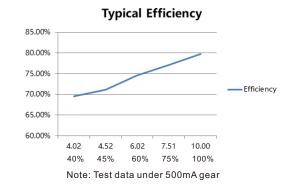
Note: Test data under 500mA gear

Driver Performance

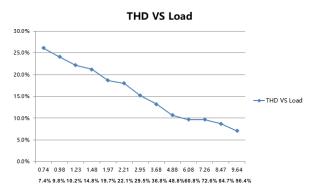


Note: Test data under 500mA gear

Driver Performance



Driver Performance



Note: Test data under 500mA gear

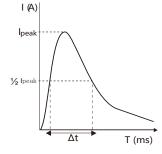
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-1009N-10CC100-500 SRP-2504N-10CC100-500	100 – 500 mA	Тс	50 °C	60 °C	65 °C	•••	85 °C
SRP-1009N-10CCT100-500 SRP-2504N-10CCT100-500	100 – 500 mA	Lifetime	> 100,000 h	> 100,000 h	> 100,000) h	> 40,000 h

The LED driver is designed for a lifetime stated above under reference conditions. The relation of tc to ta temperature depends also on the luminaire design.

MCB Load Quantity

Module Number	Ipeak	Twidth	B10	B13	B16		.qua	ntity		ED D C16					D16	D20	D25
			DIU	ыз	B10	B20	DZD	010	013	010	620	625			010	020	D25
SRP-1009N-10CC100-500 SRP-2504N-10CC100-500	4.32A	80µs	34	45	55	69	86	57	75	920	115	144	80	104	128	160	200
SRP-1009N-10CCT100-500 SRP-2504N-10CCT100-500		80µs	34	45	55	69	86	57	75	92	115	144	80	104	128	160	200



Note:

1. Those MCB parameters are based on ABB S200 series circuit breakers.

- 2.For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- 3.Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
- 4.When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.

5. Type C MCB's are strongly recommended to use with LED lighting

Update log

Date	Version	Update content	Update by
2024-7-26	V1.0	Initial Version	Romeo

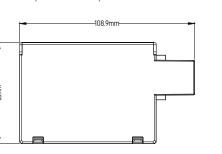
Quick Connector Box (Optional for Order)

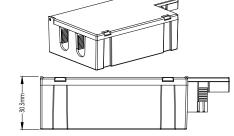
SRP-Loopbox-01

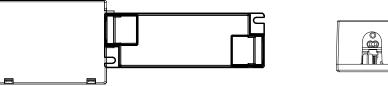
Loop in & Loop Out design

1x DALI Loop in1x AC Loop in1x DALI Loop out1x AC Loop out

Wiring capability: 0.5-2.5mm²(AWG 14-20)



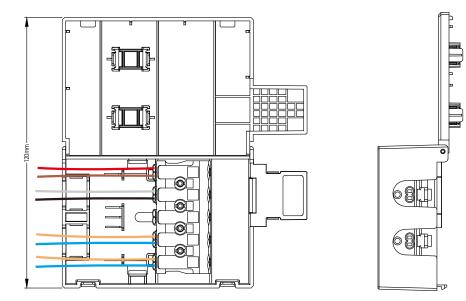




Combined(Top View)

Combined(Side View)

Note: Because the height of the 10W enclosure is slightly lower than that of the Loop box (Due to its own compact design), it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.



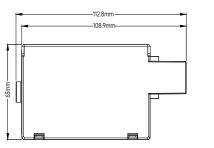
Note: Subject to change without notice. Please contact us if you have any questions.

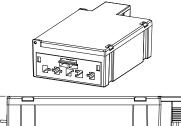
Quick Connector Box (Optional for Order)

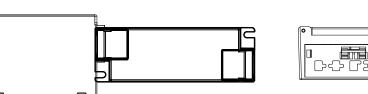
SRP-Loopbox-02

Plug & Play design (Wago Terminal)

Wiring capability: 0.5-2.5mm²(AWG 14-20)







Combined(Top View)

Combined(Side View)

Note: Because the height of the 10W enclosure is slightly lower than that of the Loop box (Due to its own compact design), it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

