NEXIVO
by KGP Electronics GmbH

XSC10W100-700-DALI-NFC-NX

Constant Current Dimmable Driver

Model:XSC10W100-700-DALI-NFC-NX

Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
XSC10W100-700-DALI-NFC-NX	163040	100-700mA	≤0.06A	12.20W	0.30-10.00W	≥0.92	82.5%	2.5-46Vdc	60Vdc

*** Test result @230V, 50Hz, Full Load.**

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Amplitude (DALI-2)
	Output current setting	Near field communication (NFC)
	Output Features	Isolation
	IP Grade	IP67
	Insulation Class	Class II (compatible Class I)
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.06A max
	Input Power	≤12.20W max
	Power Factor	≥0.92 (230VAC，full load)
	THD	≤10% (230VAC，full load)
		≤15% @Output Power ≥ 7 W
	Standby Power Consumption	≤0.45W @230VAC (DALI system DIM to off)
	Inrush Current	≤N/A (230VAC，full load)

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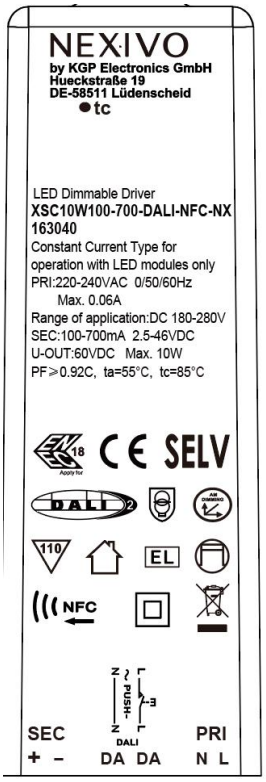
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	N/A
Output	Output Voltage Range	2.5-46VDC@100-200mA, 2.5-40VDC@250mA 2.5-33VDC@300mA, 2.5-28VDC@350mA 2.5-25VDC@400mA, 2.5-22VDC@450mA 2.5-20VDC@500mA, 2.5-18VDC@550mA 2.5-16VDC@600mA, 2.5-15VDC@650mA 2.5-14VDC@700mA
	No Load Voltage	60VDC Max.
	Output Current	100-700mA (by NFC setting， Factory set current of 100mA)
	Max. Output Power	10W
	Efficiency	≥82.5% @250mA, 230VAC
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
	Starting Time（AC mode）	≤0.8S (230VAC，full load, by DALI system)
	Starting Time（DC mode）	≤0.4S
	Switching over time（AC/DC）	≤0.4S
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length：20m, same port of DALI）
	PUSH-button	Max parallel connections qty for Push-dim 15
	DALI function	DALI dimming (Max. lead wire length：300m） logarithm or linear dimming curve selectable
	Dimming range	DALI dimming:1%-100%
	NFC current setting	The output current can be set within the total value range in 1-mA-steps. Output current is mean value. Setting is by EX·IVO's software APP/APK/PC with FEIG equipment or mobile phone
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	<700μA,I/P to O/P @230V input
Environment	Ta/Operation Temperature	-20….+55℃
	Ts/Storage Temperature	-20….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa

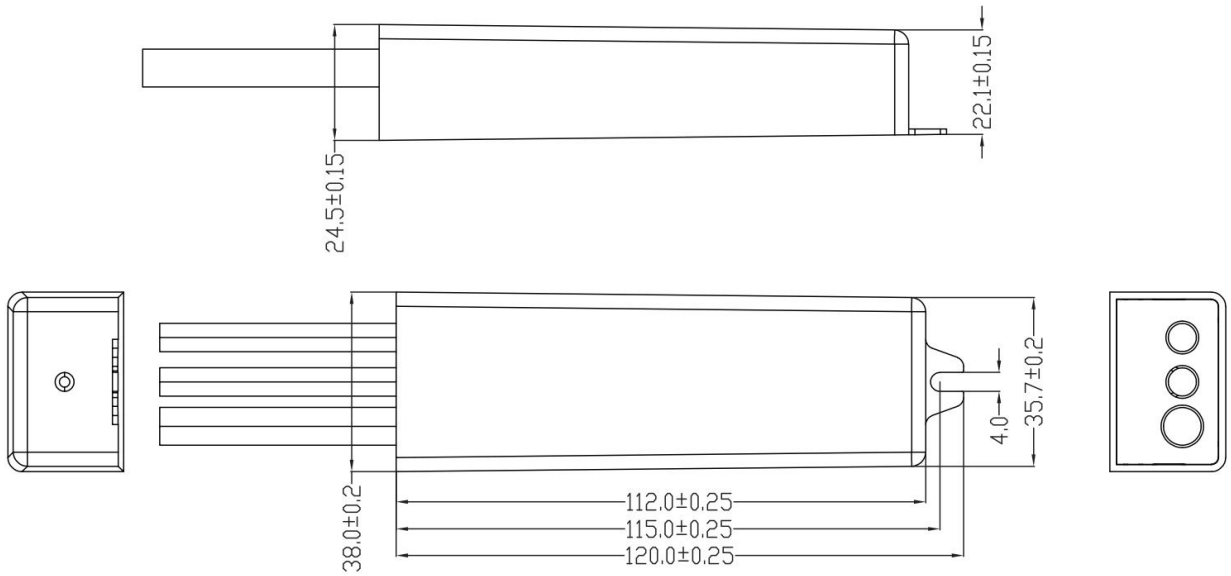
Construction	Connection Method	Wire
	Installation	Independent
	PRI Wire preparation	220mm
	SEC Wire preparation	220mm
	DALI Wire preparation	220mm
	SEC Wire preparation	0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters) (the length required by the standard). If there are any data differences, please test according to the length required by the standard)
	Dimension	112*35.7*22.1mm(L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	Performance	EN62384
	DALI Performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2, including part 251, 252, 253)
	Surge	L/N-Ground:4kV; L-N:2kV
Others	RoHS	compliedto2011/65/EU
	Life Time	50000h Tc=85℃
		75000h Tc=80℃
		100000h Tc=75℃
	Warranty	5years ， F.R. < 10000ppm

Remark:
1.All Parameters,if not specified,are measured at 230VAC/50Hz and 25℃ ambient temperature.
2.LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
3.Please make sure Tc under Lifetime condition when long term operate under DC input.
4.DC emergency (DCemDim):Default 15%, EOFx range = 1 .. 100% (EOFx = DCemDIM level)
5.During the PUSH DIM test, the number of parallel connections must be less than 15PCS.

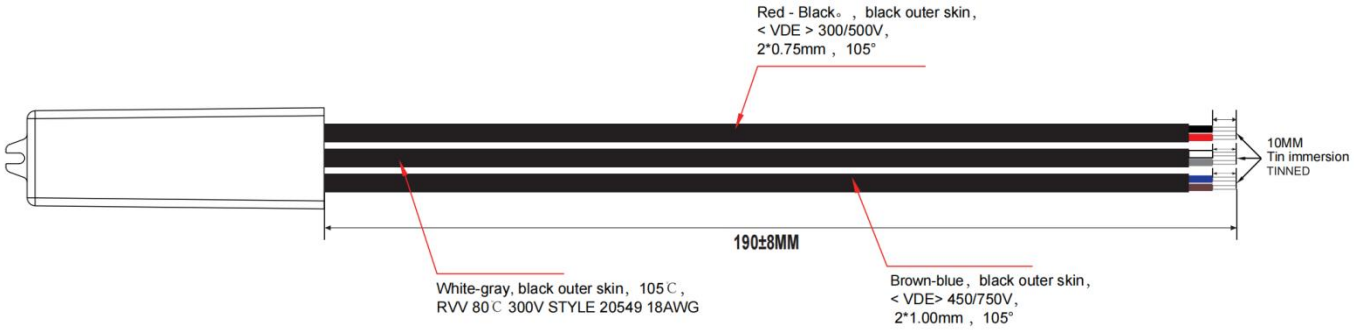
2. Label



3. Dimension（Unit：mm）

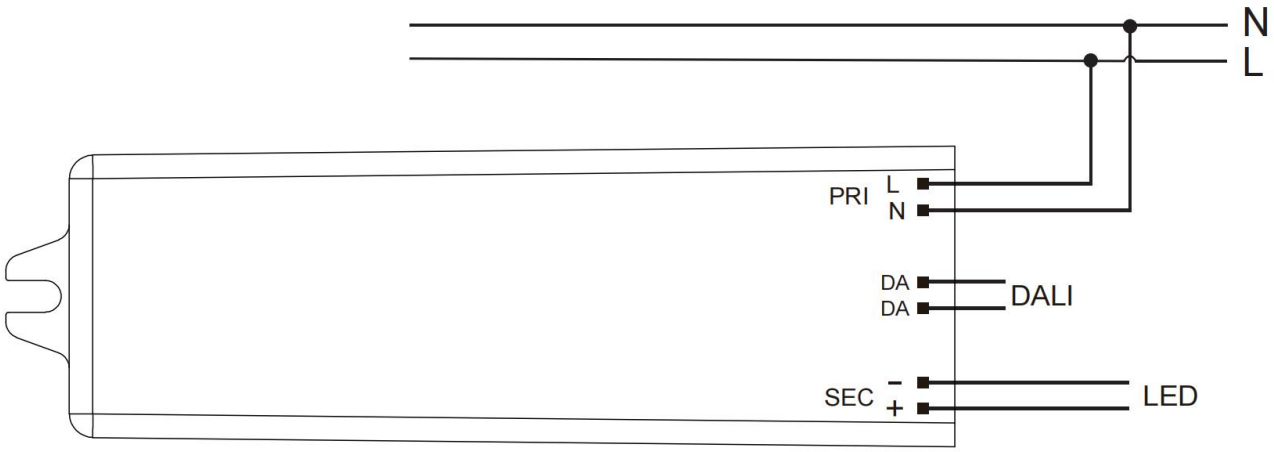


Wire

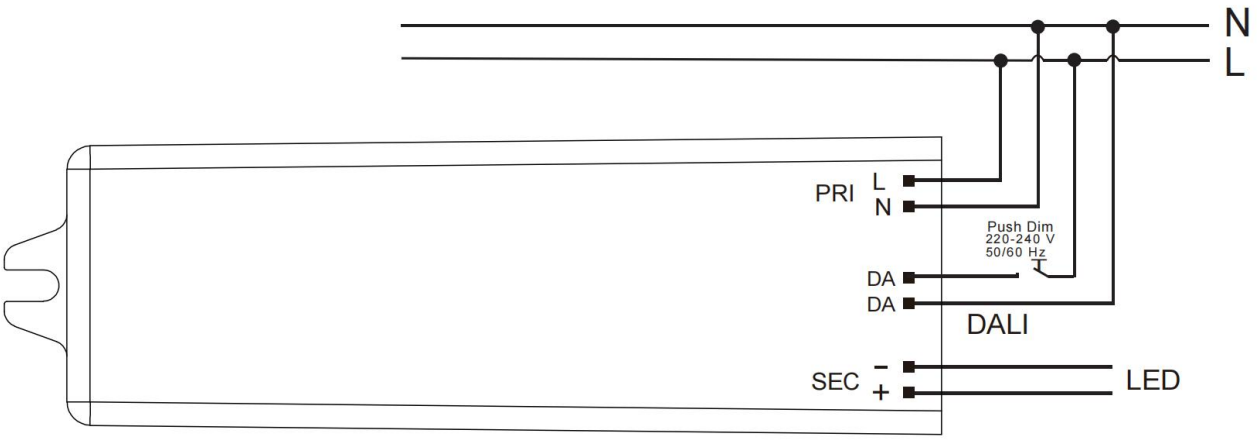


4. Wiring Diagram

DALI Dimming

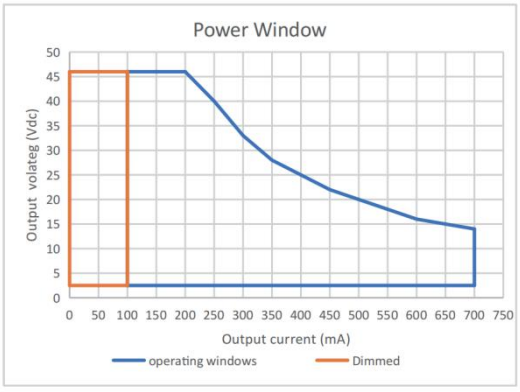


Push Dimming

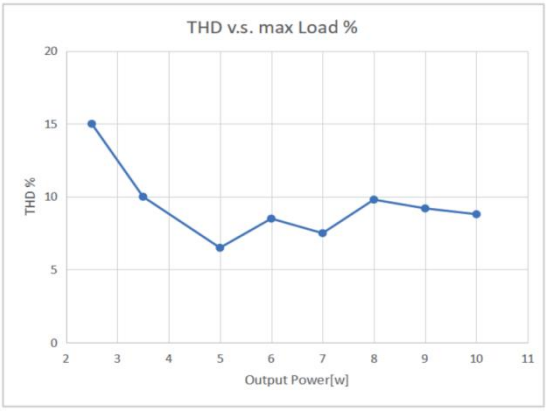


5. Electrical values

1. Operating power windows



2.THD v.s. Load



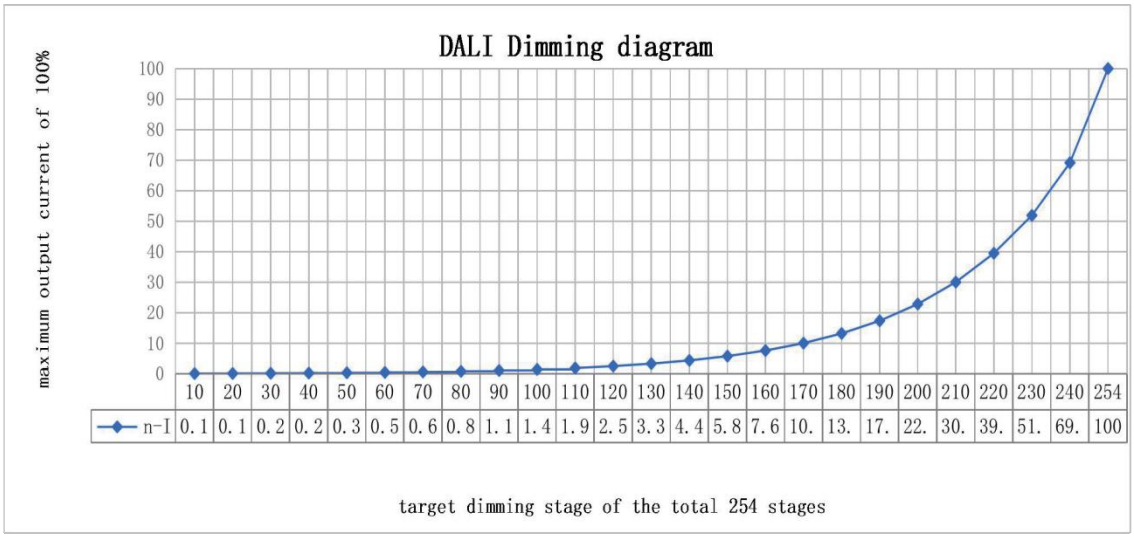
6. DALI dimming curve

formula for DALI dimming.

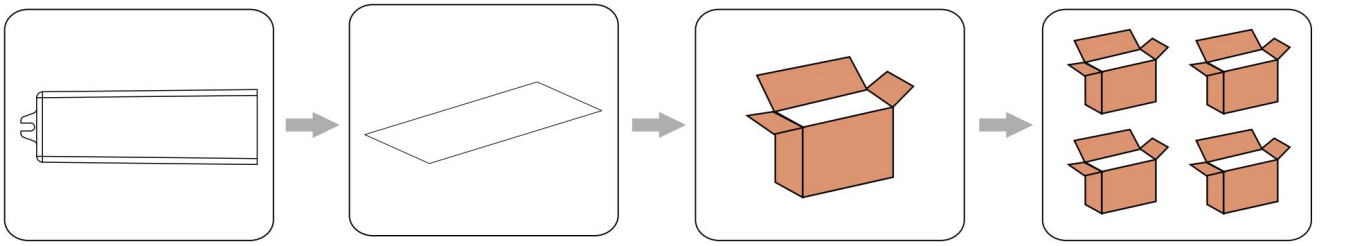
X(n)=10^{[(n-1)/(253/3)]-1},

Here,n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



7. Packing information



Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

8. Ordering Data

Model No	Item code
XSC10W100-700-DALI-NFC-NX	163040

9. NFC current setting:

NFC Reader (optional)

Feature:
Easily on-line read a output current from a driver or write a new current data to a driver throughout NEX·IVO NFC
reader within few seconds.

Model No	Description	Interface	Matching antenna	Zhaga approval	Usage
ID CPR30+	Desktop programmer	USB	Integrated	Yes	Single Programming on Desktop
ID ISC.PRH101-USB	Handheld programmer	USB	Integrated	Yes	Single Programming by Handheld
ID ISC.MR102-USB	Middle range programmer, for connecting external antenna	USB	RF-MANT12786	Yes	Single Programming on Product line
ID ISC.LR1002-E	Long range programmer, for connecting external antenna	USB, RS232, TCP/IP	ID ISC.ANT310/310	Yes	Multi Programming System

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APP NFC

Feature:
Quickly check output current of a LED driver simply via iPhone smart phone, as well as, correct or setup a new
current data immediately with no extra equipment at any job site

iPhone
ICON

Main

Download method

1.Scan the QR code to download

2.On your iPhone, search for KGP NFC in APP Store to download it

Phone smartphones with NFC can be downloaded and used directly

Android
ICON

Main

Download method

1.Scan the QR code to download

Android smartphones with NFC can be downloaded and used directly

Product	Description	Interface	Matching antenna	Zhaga approval	Usage
ID ECCO Smart HF-BLE	Handheld wireless programmer	USB,Bluetooth LE V4.2 & V5.0	Integrated	Yes	Handheld programming, installation and maintenance work

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10. Constant light output (CLO)
https://www.kdocs.cn/l/cbWalbA1eiBv

11. Push Dim :

11.1 On / off:
Short push (120ms-600ms) on the switch
Stepless dimming: long push (> 0.6sec) on the switch

11.2 Power-on memory function
When the LED driver is powered on, it will restore the memory before the LED driver is poweredoff. (brightness remembers the brightness after the last dimming is stable, and the bright ness during dimming is not memorized)

11.3 Light on/off
If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600mS.

11.4 PUSH Dimming
Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time.After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 1%-100%. The default is to dim when the power is first long-press. If the brightness of the power-onis the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

11.5 Forced synchronization
Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

11.6 PUSH Dimming rate
Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S.

12. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.27.06	V0.02	Add the logo for applying for ENEC certification
2026.20.07	V0.03	PF, THD，Label，update images