NEXIVO
by KGP Electronics GmbH

SC28W150-700CG6-X-DALI-HE-NX

Constant Current Dimmable Driver

Model:SC28W150-700CG6-W-DALI-HE-NX
SC28W150-700CG6-B-DALI-HE-NX
SC28W150-700CG6-G-DALI-HE-NX

Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
SC28W150-700CG6-W-DALI-HE-NX SC28W150-700CG6-B-DALI-HE-NX SC28W150-700CG6-G-DALI-HE-NX	156550 156560 156570	150mA	0.10A	7.70W	1.50-6.00W	0.75	78.0%	10-40V	59V Max.
		200mA	0.11A	10.00W	2.00-8.00W	0.80	81.0%		
		250mA	0.12A	12.20W	2.50-10.00W	0.82	82.0%		
		300mA	0.13A	14.60W	3.00-12.00W	0.85	82.0%		
		350mA	0.14A	17.10W	3.50-14.00W	0.88	82.0%		
		400mA	0.15A	19.30W	4.00-16.00W	0.90	83.0%		
		450mA	0.16A	21.40W	4.50-18.00W	0.91	84.0%		
		500mA	0.17A	22.70W	5.00-20.00W	0.92	88.0%		
		550mA	0.18A	24.70W	5.50-22.00W	0.94	89.0%		
		600mA	0.19A	26.70W	6.00-24.00W	0.95	90.0%		
		650mA	0.20A	28.60W	6.50-26.00W	0.95	91.0%		
		700mA	0.21A	30.80W	7.00-28.00W	0.95	91.0%		

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Frequency	50/60Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.21A （230VAC, full load)
	Input Power	≤30.80W (230VAC，full load)

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	Power Factor	≥0.92 (230VAC，full load)
	THD	≤20% (230VAC，full load)
	Standby Power Consumption	≤0.45W @230VAC (DIM to off)
	Inrush Current	≤18A/2.8us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	11pcs/type A ;17pcs/type B ; 28pcs/type C 14pcs/type A ;22pcs/type B ; 36pcs/type C 18pcs/type A;27pcs/type B ; 44pcs/type C 22pcs/type A;33pcs/type B ; 55pcs/type C
Output	Output Voltage Range	10-40VDC@150-700mA
	No Load Voltage	59VDC Max.
	Output Current	150mA -700mA (Max. output), Factory set current of 150mA
	Max. Output Power	28W
	Efficiency	≥91% 230VAC，full load
	Output LF current ripple (< 120 Hz)	±5% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
	Starting Delay Time	≤0.1S (230VAC，full load, by DALI system)
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%
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	-25….+35℃
	Ts/Storage Temperature	-25….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.5-1.5□
	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	217.8*31.1*42.2mm (L*W*H)

Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	DALI performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2, including part 251, 252, 253)
	Performance	EN62384
	Surge	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.During the PUSH DIM test, the number of parallel connections must be less than 15PCS.

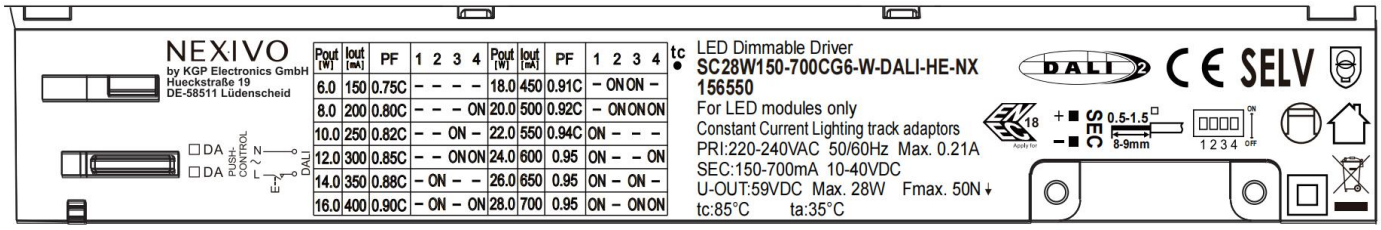
Distance	15m	30m	50m
Cable selection	0.5mm²	0.75mm²	1.0mm²

2. Output current setting

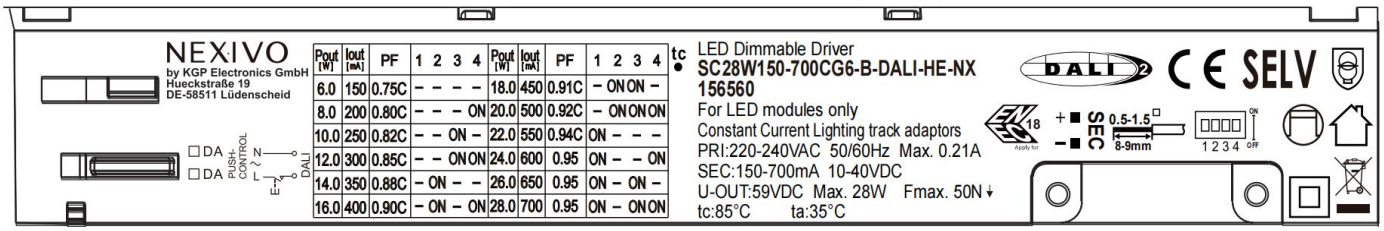
Output Current	1	2	3	4
150mA	-	-	-	-
200mA	-	-	-	ON
250mA	-	-	ON	-
300mA	-	-	ON	ON
350mA	-	ON	-	-
400mA	-	ON	-	ON
450mA	-	ON	ON	-
500mA	-	ON	ON	ON
550mA	ON	-	-	-
600mA	ON	-	-	ON
650mA	ON	-	ON	-
700mA	ON	-	ON	ON

3. Label

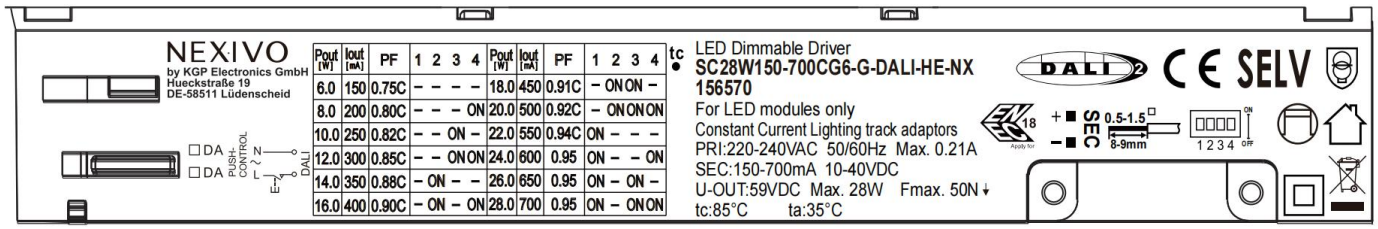
White (RAL 9016)



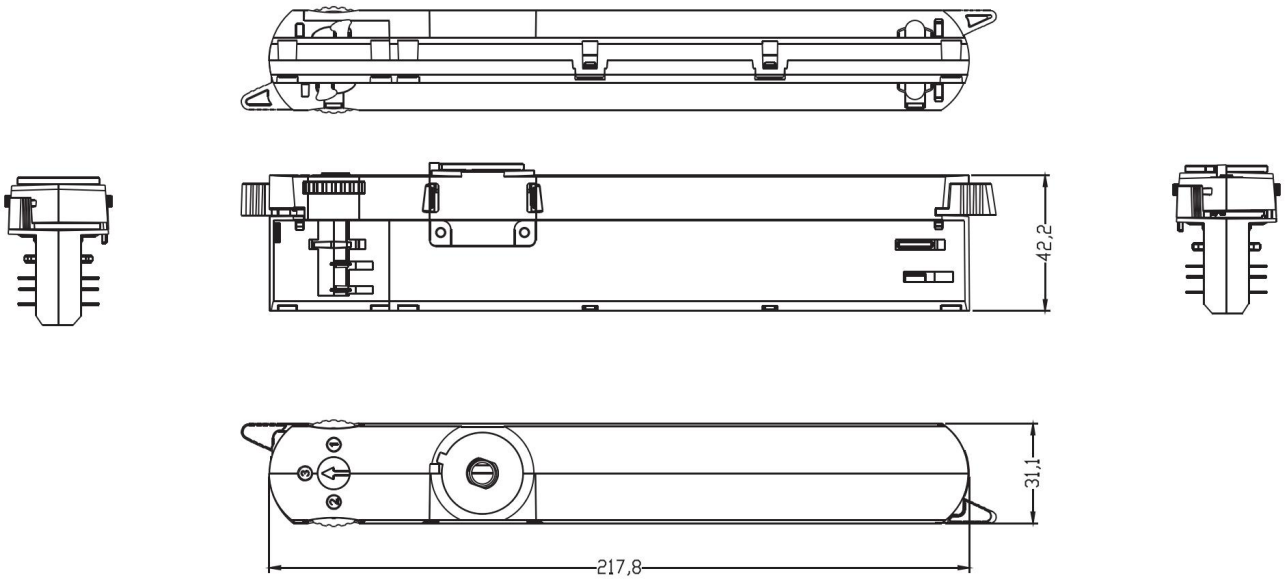
Black (RAL 9005)



Grey (RAL 7035)



4. Dimension（Unit：mm）



5. Wiring Diagram

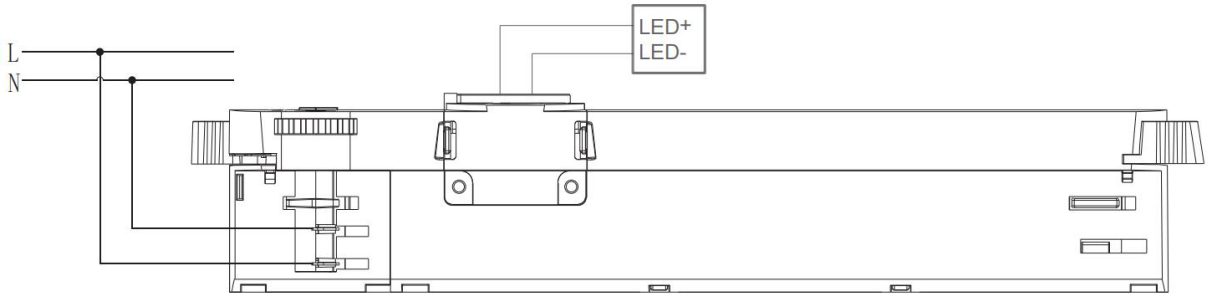


Fig.A: Push Dimming

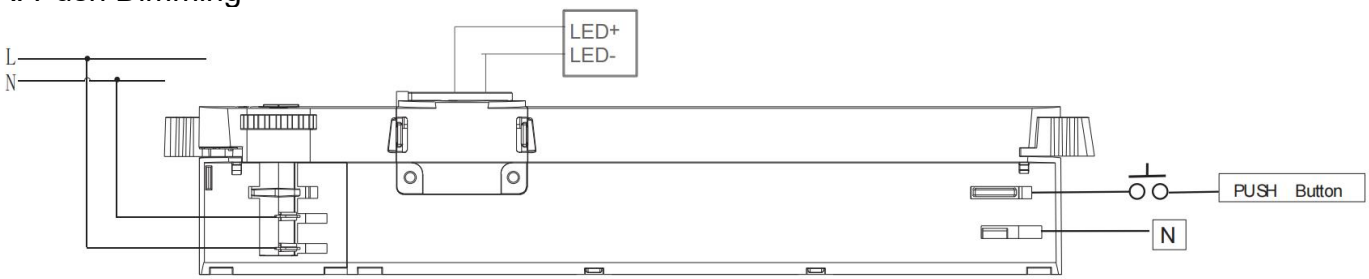
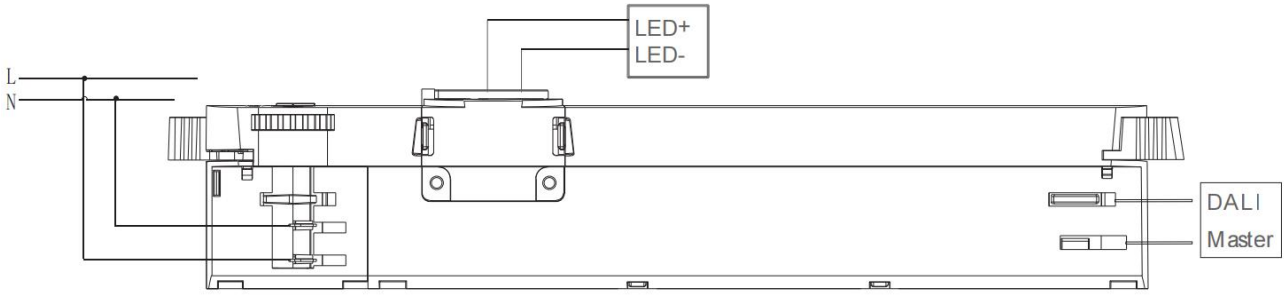


Fig.B: DALI Dimming



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6. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
395*295*125	T.B.D	T.B.D	T.B.D	T.B.D

7. Ordering Data

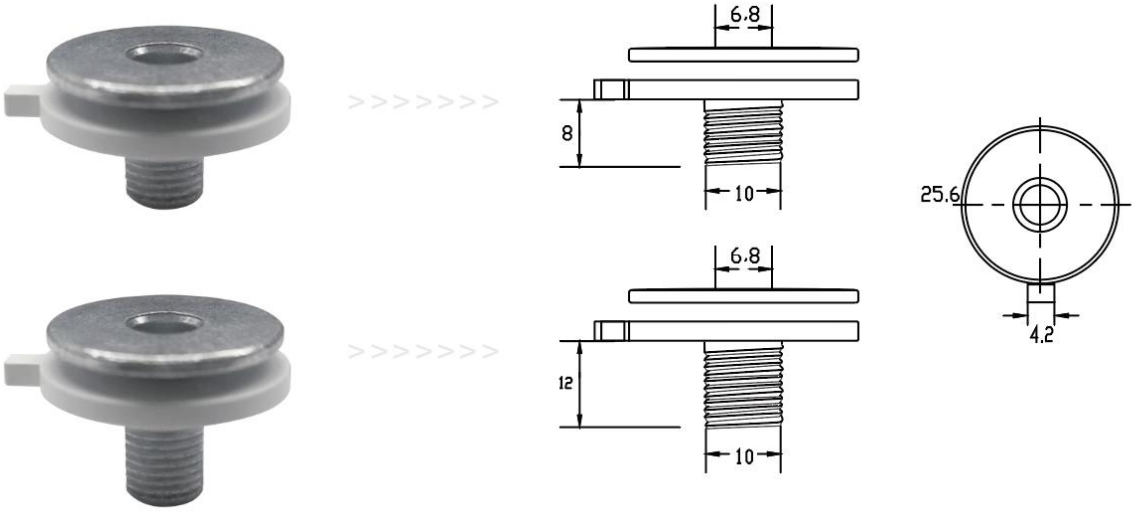
Model No	Item code
SC28W150-700CG6-W-DALI-HE-NX	156550
SC28W150-700CG6-B-DALI-HE-NX	156560
SC28W150-700CG6-H-DALI-HE-NX	156570

8. Lamp Screw Type

- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment,e.g.M10x1x12
- aluminium, black, white
- further on request

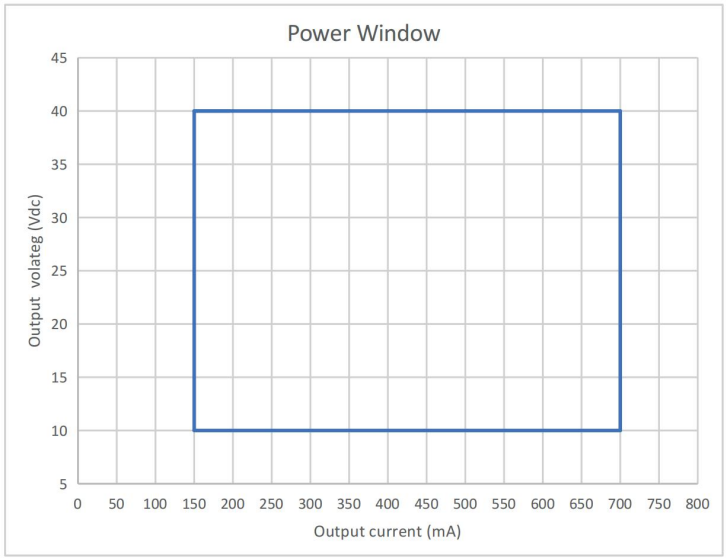
Ordering data

Type	Colour	Article number	Qty/ctn	weight/pcs
M10X1X8	White	2011011	500	5.1g
	Black	2011010	500	5.1g
	Gery	2011012	500	5.1g
M10X1X12	White	2011017	500	5.7g
	Black	2011016	500	5.7g
	Gery	2011018	500	5.7g



9. Electrical values

1. Operating power windows



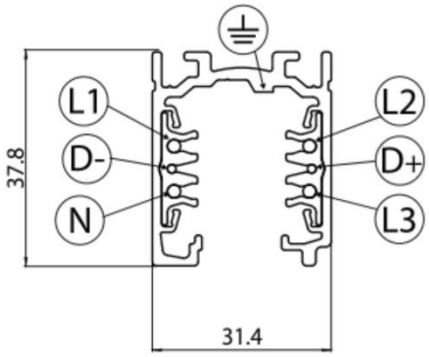
10. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTSC6 & XTSCF6	3P
2	Stucchi	9000xX Series	3P
3	Unipro	TC33B	3P
4	ERCO	ZUMTOBEL	3P

Remark:

1. The model name is XTSC6 and XTSCF6 tracks, and its brand is Global.
2. The model name used is the 9000XX track, and its brand is Stucchi. The “XX” in the model name represents: it represents a different color.
3. The model name is TC33B tracks, and its brand is Unipro.

11. Phase track light rail specification:



12. Lighting track adapter and rail system installation diagram:

The adaptor shall be given that the use is limited to the track system specified.

13. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted（Except for constant voltage）
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

14. Push Dim :

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

14.2 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)

14.3 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.

14.4 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.)

14.5 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.

14.6 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.

15. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release