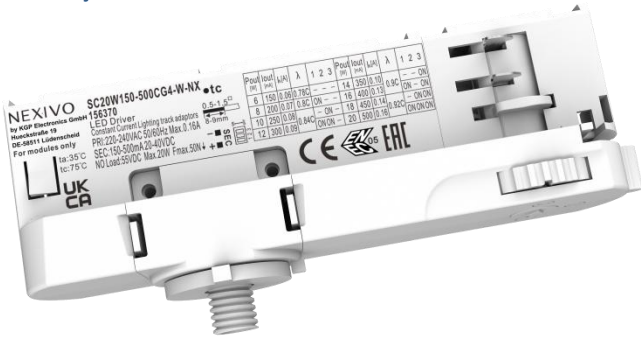




SC20W150-500CG4-X-NX

Constant Current Driver

Model: SC20W150-500CG4-X-NX



Model	Item Code	Output current	Input current	PF	Efficiency	Output voltage	No load voltage
SC20W150-500CG4-W-NX SC20W150-500CG4-B-NX SC20W150-500CG4-G-NX	156370	150mA	0.10A	0.80	80%	20-40V	≤55V
		200mA	0.11A	0.88			
	156380	250mA	0.12A	0.90	83%		
		300mA	0.13A				
	156390	350mA	0.14A	0.92	85%		
		400mA	0.15A				
		450mA	0.16A				
		500mA	0.17A				

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	50/60Hz
	Input Current	≤0.16A
	Input Power	≤27W
	Power Factor	≥0.92
	THD	≤20%
	No-load Power Consumption	≤0.5W
Output	Output Voltage	20-40V
	No Load Voltage	55VDC Max
	Output Current	150/200/250/300/350/400/450/500MA
	Max. Output Power	20W
	Efficiency	≥86%
	LF Current Ripple (< 120 Hz)	±5%(Imax-Imin)/(Imax+Imin)

	Current Accuracy	150/200/250/300mA@±7% 350/400/450/500MA@±5%
	Started Delay Time	≤0.5S
	PSTLM	≤ 1
	SVM	≤0.4
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P <0.7mA
Environment	Ta/Operation Temperature	-20 ... +35℃;
	Ts/Storage Temperature	-40 ... +85℃
	Tc/Enclosure Temperature	75℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-1.5mm²
	SEC Wire preparation	0.5-1.5mm²
	Dimension	128 x 30.8x 43mm (L*W*H)
Standards	Certification	CE/ENEC/EAC/SAA/UKCA
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015,AS/NZSIEC61347.2.13:2013,AS/NZS61347.1:2016
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014,EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	Complied to 2011/65/EU
	Life Time	50000h @35℃ (Ta) / 75℃ (Tc)
	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.		

2. Output Current Setting

Output Current	Dial 1	Dial 2	Dial 3
150mA	-	-	-
200mA	ON	-	-
250mA	-	ON	-
300mA	ON	ON	-
350mA	-	-	ON
400mA	ON	-	ON
450mA	-	ON	ON
500mA	ON	ON	ON

3. Connected quantities of different current Breaker

Type	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4.0mm ²	4.0mm ²			
TYPE B		30	39	48	60	75	@230VAC	20	40us
TYPE C		48	62	77	96	120			
TYPE D		77	100	123	154	192			

4. Label

NEXIVO
 by KGP Electronics GmbH
 Hueckstraße 19
 DE-58511 Lüdenscheld
For modules only

SC20W150-500CG4-W-NX
156370
LED Driver
 Constant Current Lighting track adaptors
 PRI:220-240VAC 50/60Hz Max.0.16A
 SEC:150-500mA 20-40VDC
 NO Load:55VDC Max.20W Fmax.50N↓

•tc

Pout [W]	Iout [mA]	In [A]	λ	1	2	3
6	150	0.06	0.78C	-	-	-
8	200	0.07	0.8C	ON	-	-
10	250	0.08	0.84C	-	ON	-
12	300	0.09	0.84C	ON	ON	-

Pout [W]	Iout [mA]	In [A]	λ	1	2	3
14	350	0.10	0.9C	-	-	ON
16	400	0.13	0.9C	ON	-	ON
18	450	0.14	0.92C	-	ON	ON
20	500	0.16	0.92C	ON	ON	ON

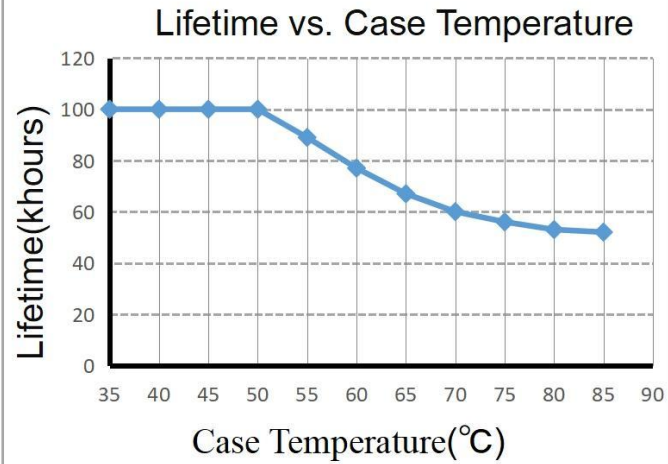
Apply for

SELV

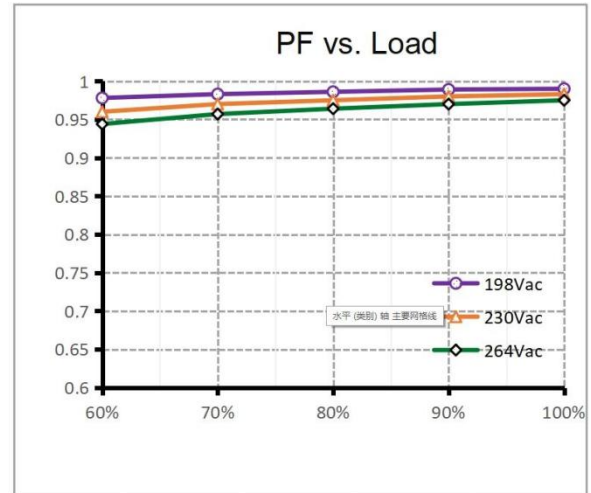


5. Electrical values

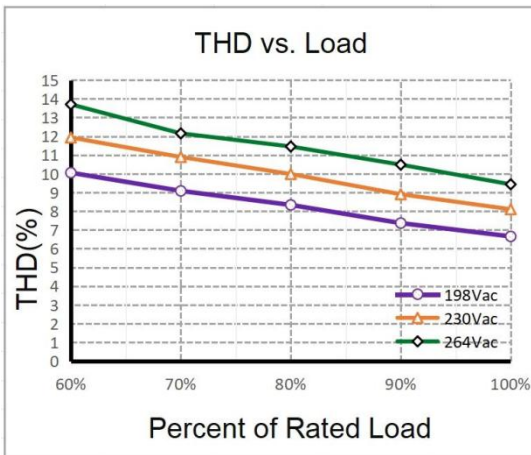
Lifetime vs. Case Temperature



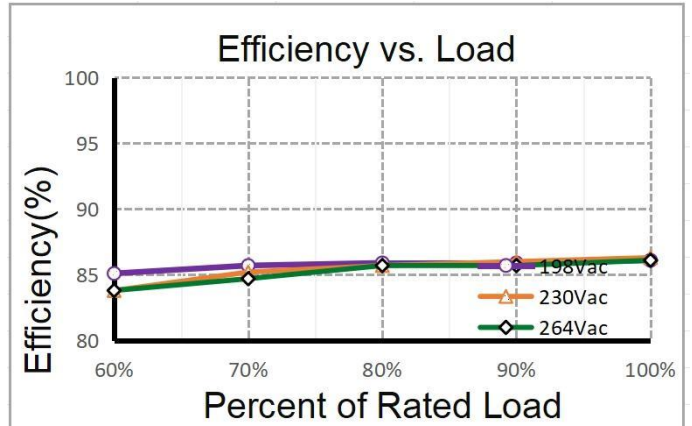
PF vs. Load



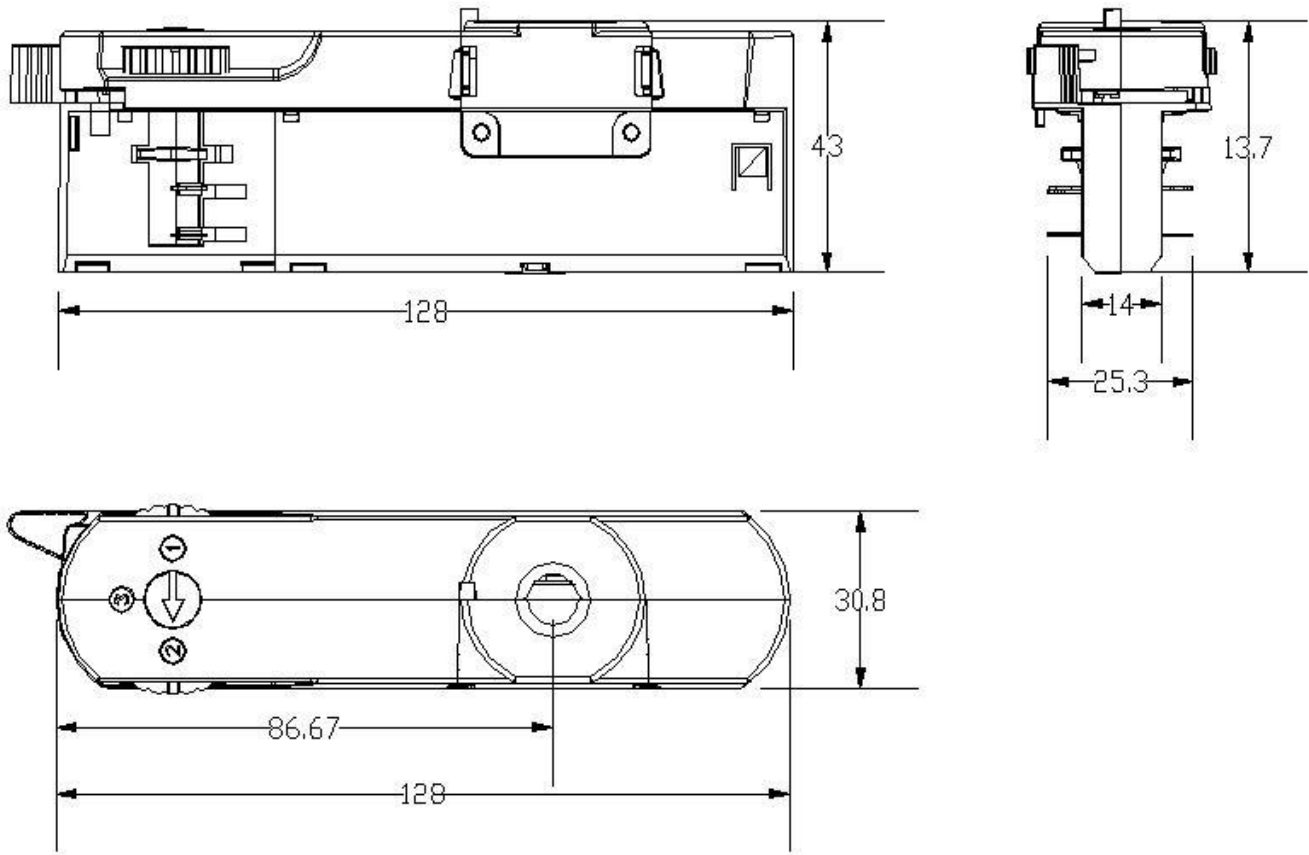
THD vs. Load



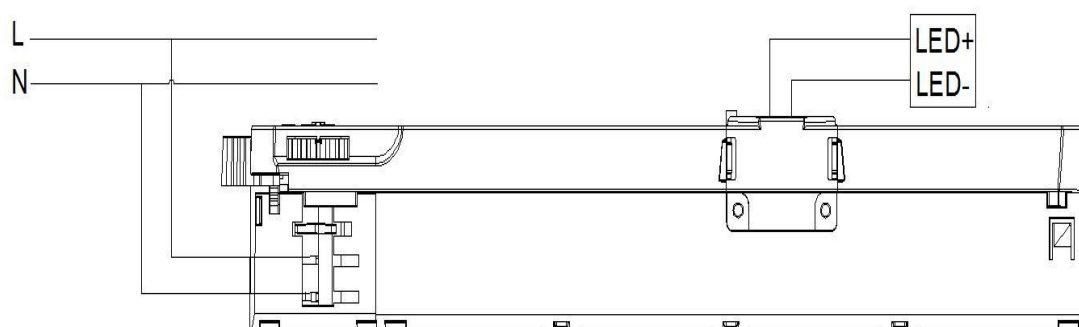
Efficiency vs. Load



6. Dimension



7. Wiring Diagram



8. Packing information

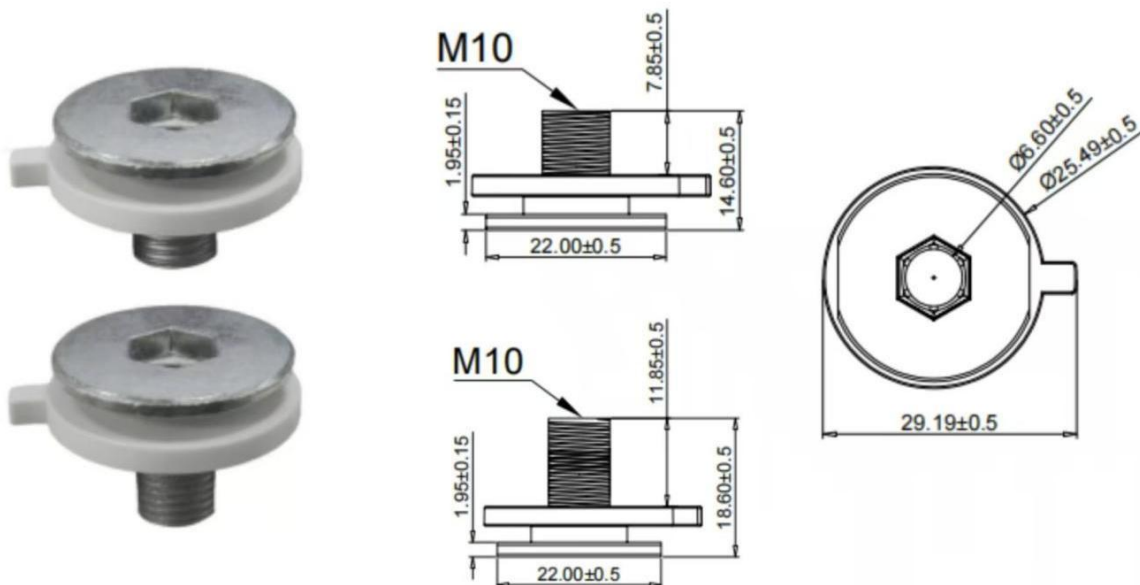
Packing way	Model	Color	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	SC20W150-500CG4-W-NX	White	L525*W285* H390	150	0.078	11.70	12.20
	SC20W150-500CG4-B-NX	Black					
	SC20W150-500CG4-G-NX	Grey					

9. Ordering data

Model No	Item code
SC20W150-500CG4-W-NX	156370
SC20W150-500CG4-B-NX	156380
SC20W150-500CG4-G-NX	156390
NIP M10x1x8 B G2	142261
NIP M10x1x8 G G2	142271
NIP M10x1x8 W G2	142281
NIP M10x1x12 B G2	142211
NIP M10x1x12 G G2	142221
NIP M10x1x12 W G2	142231

10. Lamp Screw Type

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



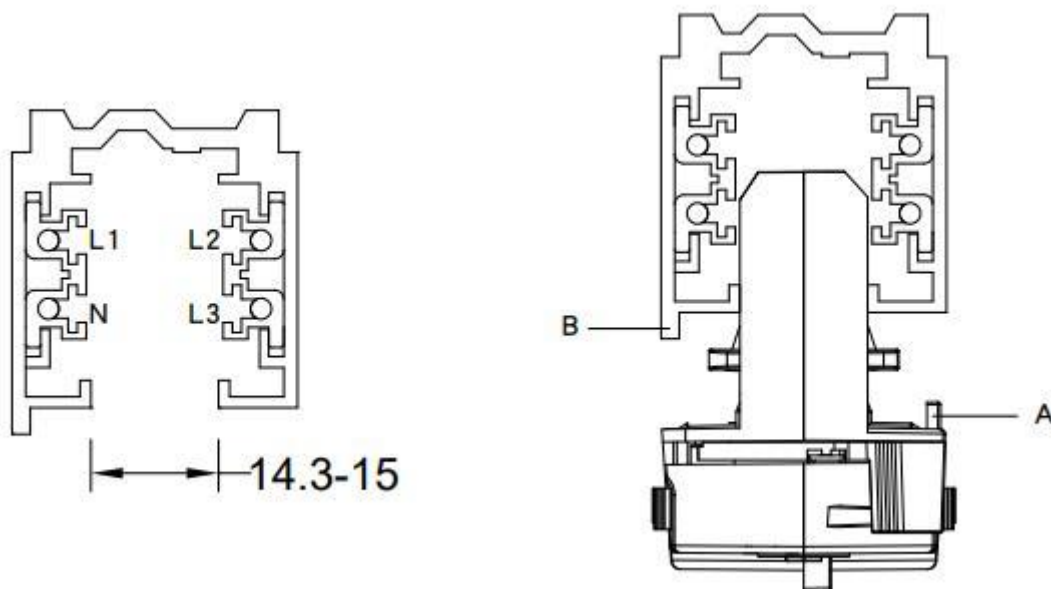
11. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTS11 & XTSC611	3P
2	A.A.G STUCCHI	9000A-2-ST	3P
3	Eutrac	25-106	3P
4	Unipro	T32B	3P
5	PowerGEAR	Pro-0431L	3P
6	ERCO	1079301000	3P

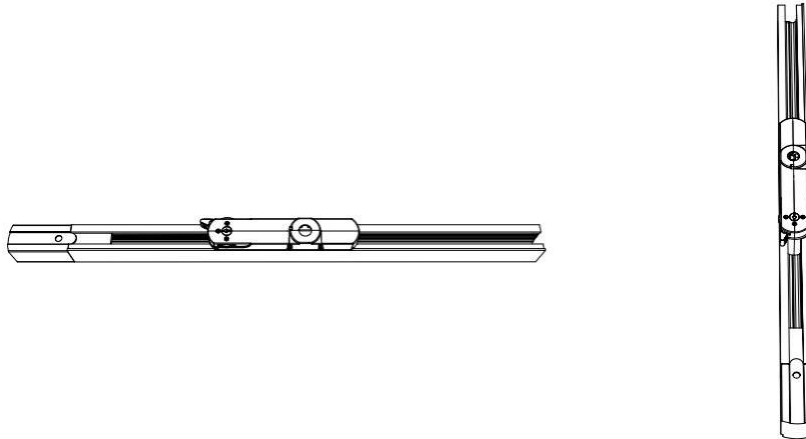
Remark:

1. The model name is XTS11 and XTSC611 tracks, and its brand is Global.
2. The model name used is the 9000A-2-ST track, and its brand is A.A.G STUCCHI.
3. The model name is 25-106 tracks, and its brand is Eutrac.
4. The model name is T32B tracks, and its brand is Unipro.
5. The model name is Pro-0431L tracks, and its brand is PowerGEAR.
6. The model name is 1079301000 tracks, and its brand is ERCO.
7. If other brands are suitable, please communicate and consult first

12. Phase track light rail specification:



13. Lighting track adapter and rail system installation diagram:



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

14. 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.)
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

15. Replace LED module

- Mains off
- Remove LED module
- Wait for 30 seconds
- Connect LED module again
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

16. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release