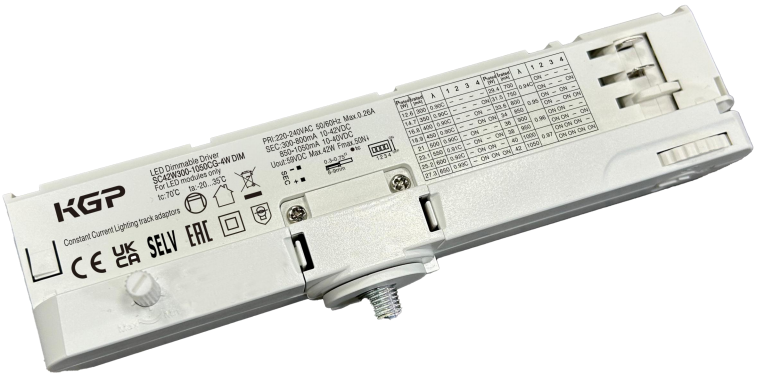
Track Adapters ON/OFF

SC42W300-1050CG-4W DIM
SC42W300-1050CG-4B DIM
SC42W300-1050CG-4G DIM



Constant current lighting track adapters

Product features

- Supply voltage 220-240 Vac ± 10%
- Range input voltage 198-264 Vac
-- Range DC input voltage 198-264 Vdc
- Frequency: 0/50/60 Hz
-- Dip Switch selectable current output
- Class II
- Power factor ≥0.97 (at full load)
- Low ripple ⩽5%
- Current Accuracy 300mA for±9%
  350mA for±8%
  400mA for±7%
  450~850mA for±6%
  900~1050mA for±5%
- Low THD ≤10% (at full load)
- Dimming range: 1.5%-100%
- Type of protection: IP20
- SELV
- 50000 Hours lifetime (At Ta/Tc)
- 5 Years guarantee



Product benefit

- Compact shape
- Wide voltage range (10-42V for 300-800mA)
  (10-40V for 850-1050mA)
- Resistance knob dimmer
- Energy saving, High Efficiency

Application

- Shops
- Home living room/ Dining room
- Residential
- Office/Co working space
- Art museum / Exhibition space

Product parameters

Model	Watt Range	Input Voltage	Mains current (mA)	Inrush current (A/μs)	DC Operation Range	Output Voltage	Output Current	Efficiency (typical)	Power factor (full load)	Rippel 100Hz(%)
SC42W300-1050CG-4W DIM SC42W300-1050CG-4B DIM SC42W300-1050CG-4G DIM	3-12.6W	220-240VAC	0.07A	25A/2μS	198-264VDC	10-42V	300mA	87%	0.90C	≤5%
	3.5-14.7W		0.08A			10-42V	350mA	87.5%	0.90C	
	4-16.8W		0.09A			10-42V	400mA	88%	0.90C	
	4.5-18.9W		0.10A			10-42V	450mA	88%	0.90C	
	5-21W		0.12A			10-42V	500mA	88.5%	0.90C	
	5.5-23.1W		0.13A			10-42V	550mA	89%	0.91C	
	6-25.2W		0.14A			10-42V	600mA	89.5%	0.92C	
	6.5-27.3W		0.15A			10-42V	650mA	89.5%	0.93C	
	7-29.4W		0.17A			10-42V	700mA	89.5%	0.94C	
	7.5-31.5W		0.18A			10-42V	750mA	89.5%	0.94C	
	8-33.6W		0.19A			10-42V	800mA	89.5%	0.95	
	8.5-34W		0.19A			10-40V	850mA	89.5%	0.95	
	9-36W		0.20A			10-40V	900mA	89.5%	0.96	
	9.5-38W		0.21A			10-40V	950mA	89%	0.96	
	10-40W		0.23A			10-40V	1000mA	89%	0.97	
	10.5-42W		0.26A			10-40V	1050mA	89%	0.97	

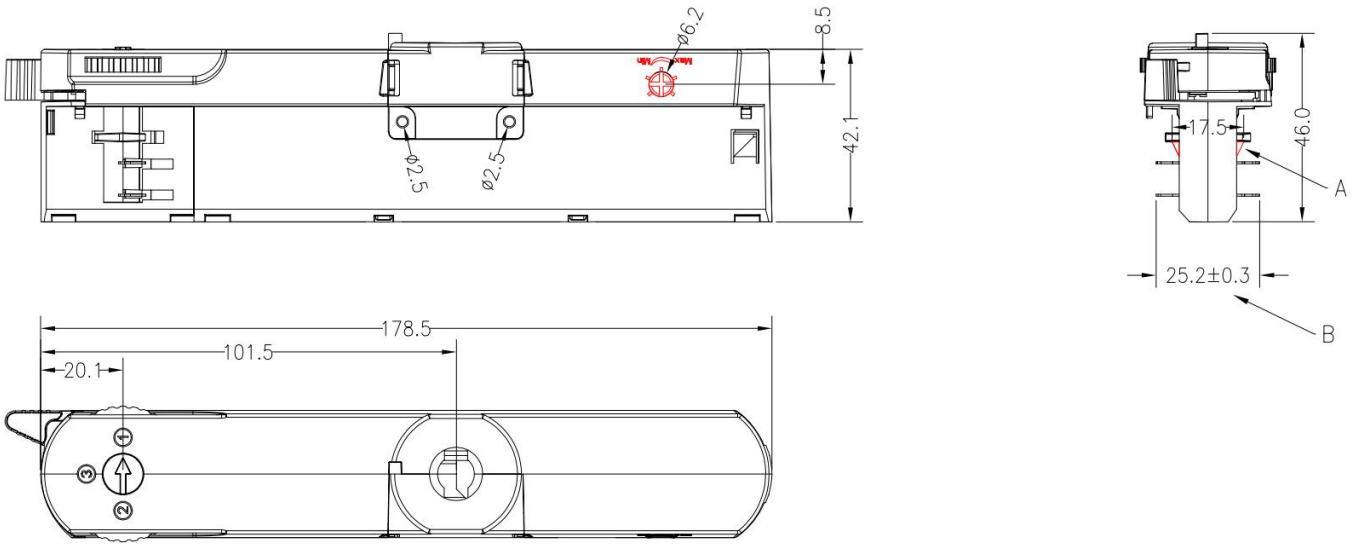
Opertational temperatures and humidity

Ambient temperature range	-20 ... +35℃
Operation humidity range	10 ... 90%RH
Storage temperature range	-25 ... +85℃
Storage humidity range	5 ... 95%
Maximum temperature at tc point	70℃

Expected lifetime

Expected lifetime at measured temp. at ta/tc point	Ta：35℃, Tc：70℃	50000h

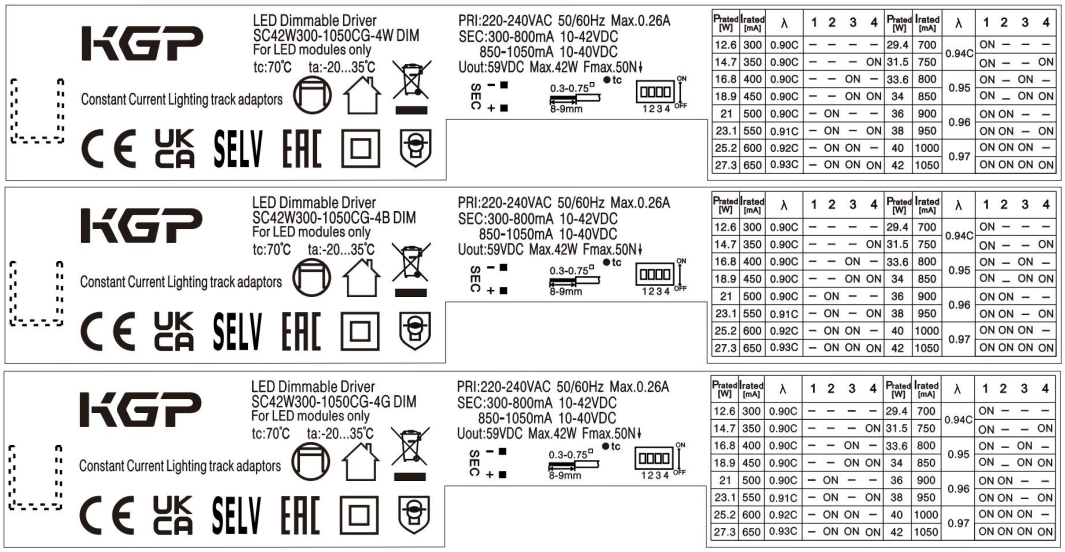
Dimensions: 178.5 x 31 x 42.1mm (L*W*H)



Wiring And Connections

Connectors	Push in terminal
Output wire cross-section	0.3-0.75 mm²
Output wire strip length	8-9 mm
Maximum length	0.8m

Product Label



Prated [W]	Irated [mA]	λ	1	2	3	4	Prated [W]	Irated [mA]	λ	1	2	3	4
12.6	300	0.90C	–	–	–	–	29.4	700	0.94C	ON	–	–	–
14.7	350	0.90C	–	–	–	ON	31.5	750		ON	–	–	ON
16.8	400	0.90C	–	–	ON	–	33.6	800	0.95	ON	–	ON	–
18.9	450	0.90C	–	–	ON	ON	34	850		ON	–	ON	ON
21	500	0.90C	–	ON	–	–	36	900	0.96	ON	ON	–	–
23.1	550	0.91C	–	ON	–	ON	38	950		ON	ON	–	ON
25.2	600	0.92C	–	ON	ON	–	40	1000	0.97	ON	ON	ON	–
27.3	650	0.93C	–	ON	ON	ON	42	1050		ON	ON	ON	ON

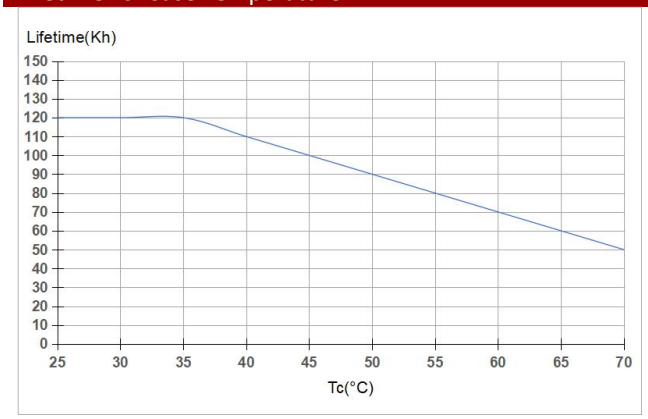
Dip Switch settings

SC42W300-1050CG-4X DIM

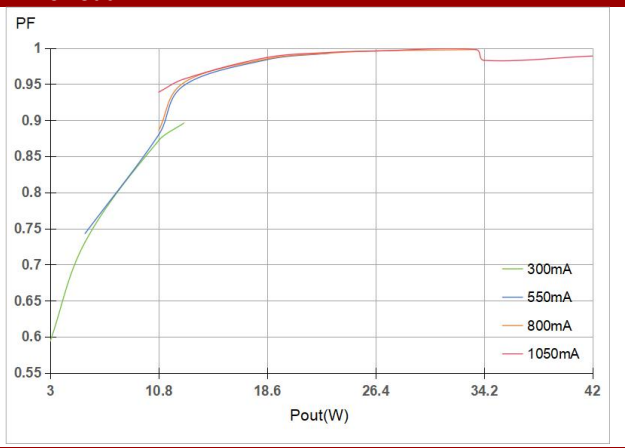
PIN 1	PIN 2	PIN 3	PIN 4	I rated (mA)	P rated (W)	U rated (V)	Factory settings (mA)
OFF	OFF	OFF	OFF	300mA	3-12.6W	10-42V	1050mA
OFF	OFF	OFF	ON	350mA	3.5-14.7W		
OFF	OFF	ON	OFF	400mA	4-16.8W		
OFF	OFF	ON	ON	450mA	4.5-18.9W		
OFF	ON	OFF	OFF	500mA	5-21W		
OFF	ON	OFF	ON	550mA	5.5-23.1W		
OFF	ON	ON	OFF	600mA	6-25.2W		
OFF	ON	ON	ON	650mA	6.5-27.3W		
ON	OFF	OFF	OFF	700mA	7-29.4W		
ON	OFF	OFF	ON	750mA	7.5-31.5W		
ON	OFF	ON	OFF	800mA	8-33.6W		
ON	OFF	ON	ON	850mA	8.5-34W	10-40V	
ON	ON	OFF	OFF	900mA	9-36W		
ON	ON	OFF	ON	950mA	9.5-38W		
ON	ON	ON	OFF	1000mA	10-40W		
ON	ON	ON	ON	1050mA	10.5-42W		

Graphs

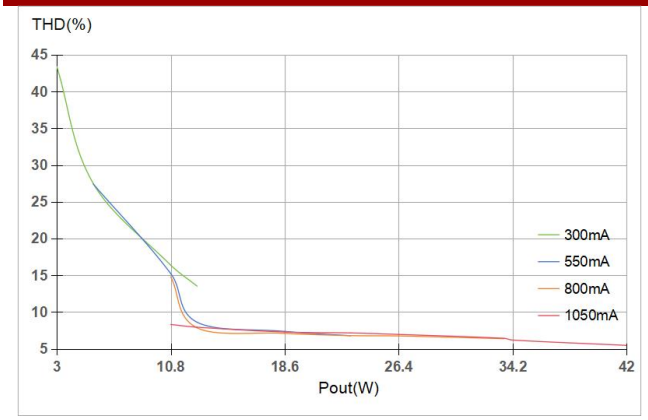
Lifetime vs. Case Temperature



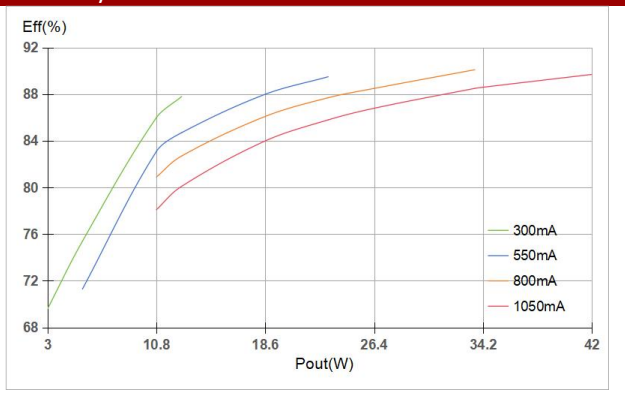
PF vs.Load



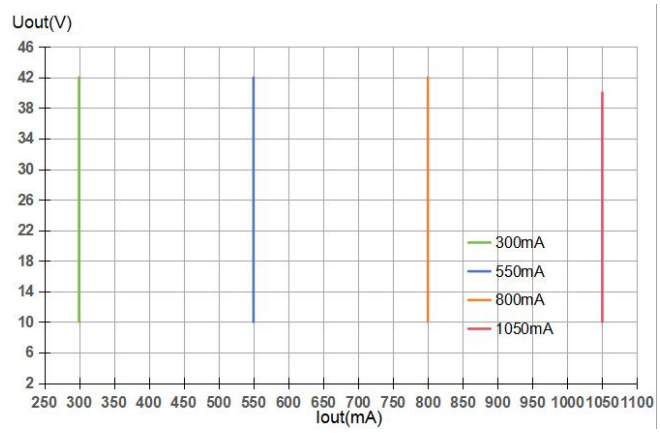
THD vs.Load



Efficiency vs. Load



Udc vs. Idc



Certificates and standards

EN 61347-1:2015/A1:2021
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020
EN IEC 61347-1:2024
EN IEC 61347-2-13:2024
EN 62493:2015/A1:2022
EN IEC 55015:2019/A11:2020
EN IEC 61000-3-2:2019/A2:2024
EN 61000-3-3:2013/A2:2021
EN IEC 61547:2023
BS EN IEC 61347-1:2024
BS EN IEC 61347-2-13:2024
BS EN 62493:2015/A1:2022
BS EN IEC 62384:2020
BS EN IEC 55015:2019/A11:2020
BS EN IEC 61000-3-2:2019/A2:2024
BS EN 61000-3-3:2013/A2:2021
BS EN IEC 61547:2023



Safety Features

- Transient mains peaks protection:
  Values are in compliance with EN62384
  (Interference Immunity)
  Surges between L-N:up to 2kV
- Short-Circuit Protection: The control gear is protected against
- Permanent short-circuit with automatic restart function.
- Overload Protection: The control gear only works in range of rated output power and voltage.
- Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).
- Overheating: The control gear has overheating protection.
- No Load Operation: The control gear is protected against no load operation(open load)
- If any of the above mentioned safety functions will be triggered disconnect the control gear from the power supply then Find and eliminate the cause of the problem.
- SELV
- SVM≤0,4
- PstLM≤1
- Open Circuit Voltaje (Umax):59V
- Efficiency: ≥87%
- Started Delay Time: ≤0.5S
- Noise:≤ 20dB @Background noise ≤15dB, Interval≥20cm
- Insulation voltage: 3750V 5mA 60S between P-S
- Leakage current: I/P to O/P <0.7mA
- Dimming range: 1.5%-100%（Potentiometer dimming）
- Dimming Type: Resistance knob dimmer

Suitable for following tracks

Serial Number	Brand	Track Model	System
1	Global	XTS 4100-4400 &XTSC 6100-6400	3P
2	A.A.G STUCCHI	9000A-ST	3P
3	Eutrac	25-106	3P
4	PowerGEAR	PRO-0410 & PRO-0610	3P
5	ERCO	78341.023	3P

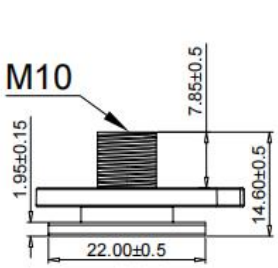
Remark

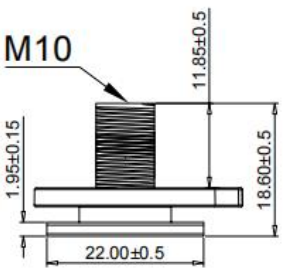
The model name is XTS 4100-4400 &XTSC 6100-6400 tracks, and its brand is Global.
The model name used is the 9000A-ST track, and its brand is A.A.G STUCCHI.
The model name is 25-106 tracks, and its brand is Eutrac.
The model name is PRO-0410 & PRO-0610 tracks, and its brand is PowerGEAR.
The model name is 78341.023 tracks, and its brand is ERCO.
If other brands are suitable, please communicate and consult first.

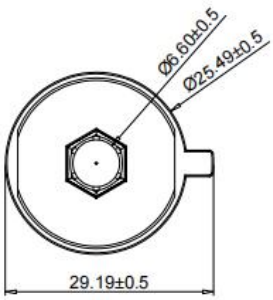
Nipples

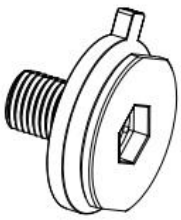
- Lamp Screw Type
- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment,e.g.M10x1x12
- Gray, Black, White
- Further on request

Type	Colour	Article Number	Qty/Ctn	Weight(g)/Pcs
M10x8	White	AL	PC	9,31
	Black	AL	PC	9,31
	Gray	AL	PC	9,31
M10x12	White	AL	PC	10,01
	Black	AL	PC	10,01
	Gray	AL	PC	10,01



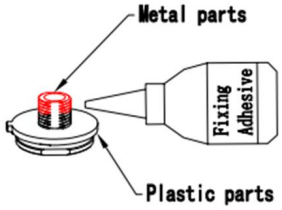




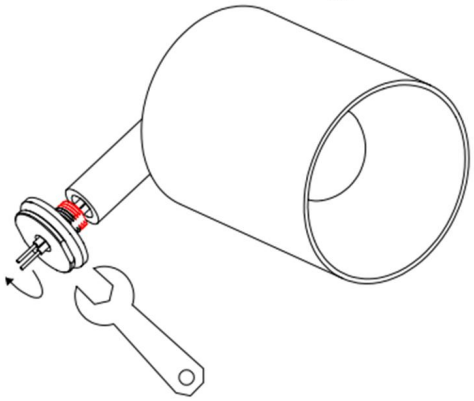


Wiring Diagram

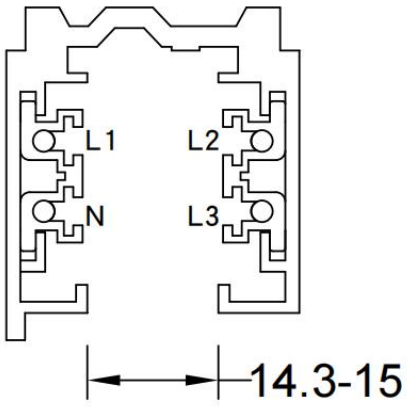
Note: If the luminaire connector requires the use of fixing adhesive (ensure to use fixing adhesive that does not cause chemical reactions with PC material leading to cracking), the amount should be limited to half of the thread length. It must not drip or seep onto the plastic parts, as indicated in the red area of the diagram below.

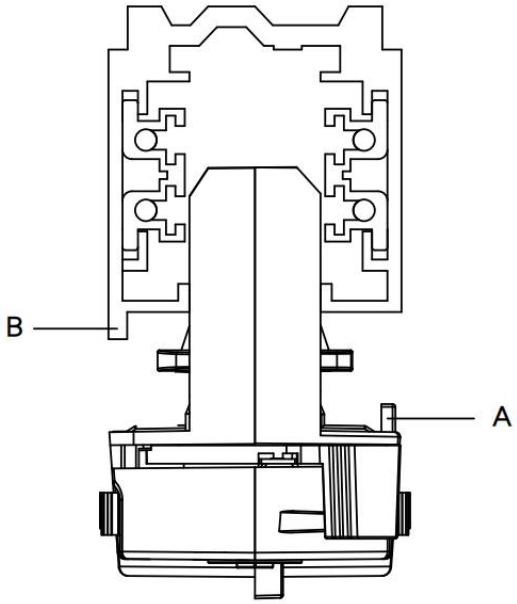


①.he wire passes through the nipple and is securely fastened to the fixture. (The connection must be firm and resistant to reverse loosening).
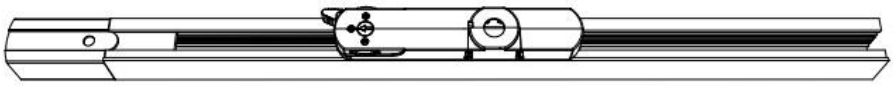


Phase track light rail specification





Lighting track adapter and rail system installation diagram



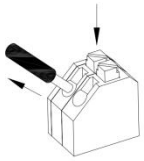


The adaptor shall be given that the use is limited to the track system specified.

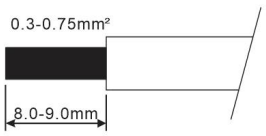
Electrical installation

- Connection terminals: Push-in terminals for rigid or flexible conductors with a section of Built-in:0.3-0.75mm² cable
- Stripped Length: 8-9mm
- Wiring: The mains conductor within the luminaire must be kept short
- Polarity: Please ensure the correct polarity of the leads. Reversed polarity can destroy the modules.
- Secondary Load: The sum of forward voltages of LED loads is within the tolerances which are mentioned in the Electrical Characteristics on the data sheet.
- Parallel Wiring: Parallel connection of LED loads is not allowed.

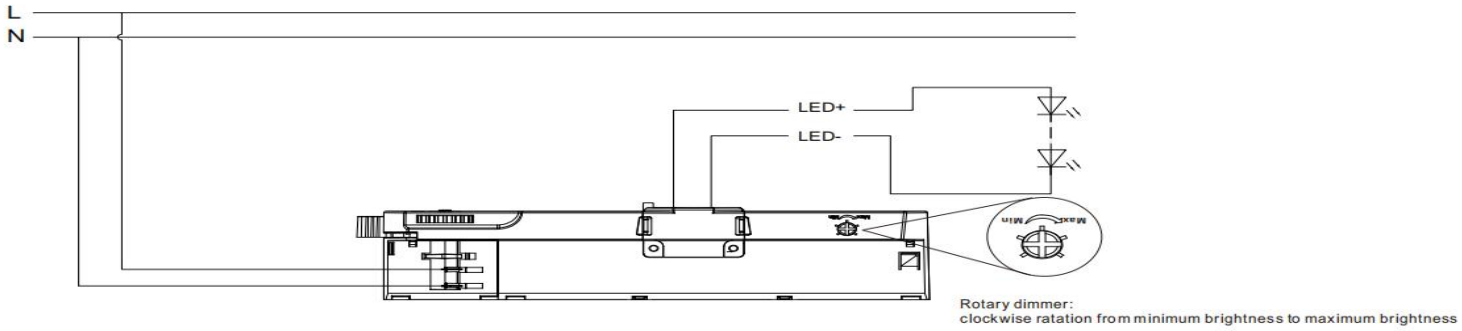
Press down the "Push Button" and remove the cable from front.



Wire Preparation



Wiring Diagram



Number of drivers per cut-out type

Type	B10A	B13A	B16A	B20A	B25A	C10A	C13A	C16A	C20A	C25A	D10A	D13A	D16A	D20A	D25A
SC42W300-1050CG-4W DIM SC42W300-1050CG-4B DIM SC42W300-1050CG-4G DIM	30	40	49	61	76	30	40	49	61	76	30	40	49	61	76

Packaging unit

Model	Packaging Carton	Packaging Pallet	CartonL*W*H (mm)	Net weight/ Pcs (g)	Net weight/ Carton (kg)	Gross weight/Carton (kg)
SC42W300-1050CG-4W DIM SC42W300-1050CG- 4B DIM SC42W300-1050CG-4G DIM	35	36	425*275*200	129	4.52	5.22

Revision history

DATE	REV	REMARK
2026.09.01	V1.0	Initial release
2026.09.10	V1.1	Update power factor
2026.09.17	V1.2	Update certificates and standards