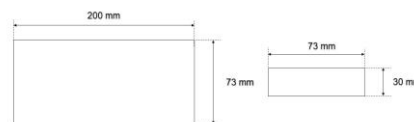


TR 2040.HCL.KL
(LEDGEAR® 50W DALI DT8 dimmable drivers)
LED-Treiber zu ELP41 2040.HCL
(Bestromung LED-Panel max. 925mA)

TR 2040.HCL.KL

LED-Treiber zu ELP41 2040MP.HCL



Systembild



Treiberdaten

Elektrotechnik

Eingangsspannung / Netzfrequenz	AC 220 – 240 V, 50 – 60 Hz
Eingangsspannung AC / DC	200 – 264
Einschaltstrom	35 A
Max. Anzahl EVG an Sicherungsautomat 10A / 16A (B)	28 / 45
Max. Anzahl EVG an Sicherungsautomat 10 A / 16A (C)	33 / 52
Stoßspannungsfestigkeit (L/N) - Erde	-
Stoßspannungsfestigkeit (L/N)	-
Ausgangsspannung	14 – 42 V
U-OUT (Arbeitsspannung)	49 V
Ausgangsstrom	350 – 1100 mA
Rippelstrom (100Hz)	< 3 %
Ausgangsleistung	17 – 48 W
Galvanische Trennung	SELV
Dimmbar	JA
voreingestellt. Ausgangsstrom (Standard)	900 mA
Lebensdauer	ca. 100.000 h

Maße & Gewichte

Lochmaßabstände L X B	172 x 36,5 mm
Gewicht	0,280 kg
Maße L x B x H	200 x 73 x 29,8 mm
Leitungsquerschnitt Eingang/Ausgang	0.75 – 2.5 mm ² / 0.5 – 2.5 mm ²
Abisolierlänge Eingang/Ausgang	8 – 10 mm

Material & Betriebsbedingungen

Gehäusematerial	Kunststoff
Umgebungstemperaturbereich T _a	-25 °C - +50 °C
Max. Temperatur am Messpunkt T _c	90 °C

Ausschreibungstext

TR 2040.HCL.KL
LED-Treiber zu ELP41 2040MP.HCL
maximal 36 W, 4200 Lumen,
Farbtemperaturbereich von 2700 K – 6500 K.
Konstantstrom LED-Treiber
DALI Device Type 8 (DALI DT8).
Ausgangsstrom kann über DIP-Schalter
eingestellt werden
Treiber verfügt über eine Push-DIM Funktion.
Primärseitig Wechselspannung
(AC 200 V – 264 V),
Sekundärseitig Gleichspannung
(DC 14 V – 42 V) 350 - 1100 mA
voreingestellt. Ausgangsstrom (Standard): 900mA
Rippelstrom: < 3 %
Leitungsschutzschalter: 28 x B 10 A
Leitungsschutzschalter: 45 x B 16 A
Leitungsschutzschalter: 33 x C 10 A
Leitungsschutzschalter: 52 x C 16 A
Geeignet für Leuchten mit Schutzklasse II.
Schutzart IP 20
Länge: 200 mm, Breite: 73 mm, Höhe: 29,8 mm.
ENEC zertifiziert.
Fabrikat: FRISCH-Licht®
Typ: TR 2040.HCL.KL

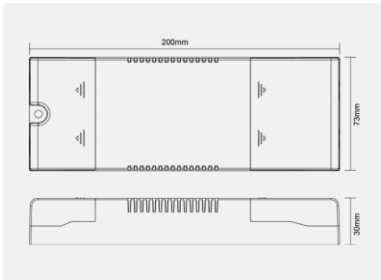
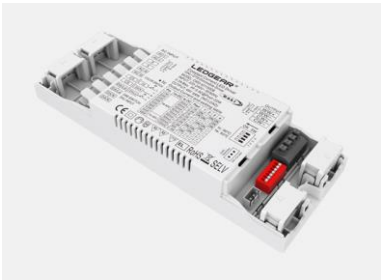
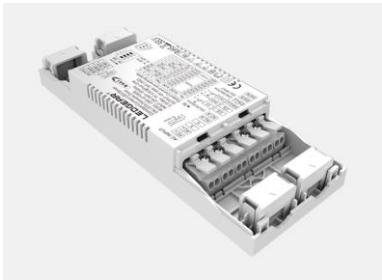
Optional

LEDGEAR® 50W DALI DT8 dimmable drivers

Colour temperature control technology is essential for Human Centric Lighting that supports wellbeing, brings health benefits and increases productivity – and on top, is a beautiful design element.

LEDGEAR® has a wide range of Tunable White luminaires, developed specifically for dimming and tuning of white colour. While the LEDGEAR® C7 & C8 Tunable white DALI DT8 LED drivers is the heart of tunable white lighting. It allows dimming and changing of color temperature through DALI-2 application controller or through two push-dim buttons. The driver works as a one address DT8 driver, or 2xDT6 in one address.

LEDGEAR® C7 & C8, are independent ECG, design with through wiring and super large wiring space, saving a lot of time and effort on the actual wiring work on site. Big push-fit looping connectors are quick to connect cables with, supporting also various wire thicknesses. Wires are secured to the driver with click-on cable clamps, and strain relief cover clicks on effortlessly securing the connections without any need for screws.



Application

- For Tunable White as well as for 2-channel use (e.g. warm white/cool white; direct/indirect lighting)
- For panel light, troffer and area light in office and education application
- For spot light and downlight in retail and hospitality applications

Features

- For Tunable White as well as for 2-channel use (e.g. warm white/cool white lighting)
 - DALI-2 Device Type 8(DT8 or DALI 209) and Push-DIM 2in1 dimming
 - IEC 62386 Part 101,102(DALI-2), 207, 209 qualified and tested in DALI house
 - DALI DT8 color type tc compliant , 3% to 100 % (DT8) dimming range
 - Reliable, Class II, SELV according EN 61347
 - Constant current output, selectable by DIP switches or programmed by DALI
 - ENEC, CE, CB approved by TUV SÜD, SAA, CTICK qualified
 - Allows through wiring and equipped with super large wiring space
 - Built-in AUX of 12V max. 100mA for lighting sensor with 3PINs plug-in connector
 - $\pm 5\%$ output current accuracy(under maximum load)
 - Permissible AC cable 0.75-2.5mm² wire gauge, 8~10mm PVC jacket diameter
 - Protection for output open load, short circuits, over voltage and over temperature
 - Built-in with permanent memory for DALI and Push-DIM, 100,000 times memory
 - 90°C Maximum case operation temperature(tc-point ¹)
 - Operating temperature ¹: -25°C ~ +50°C, the humidity: 20% ~ 85%
 - Over 60,000 hrs nominal lifespan at tc=70°C
 - Five-year factory guarantee and lifetime technical support ¹
- ¹ Detailed data please refer to the " PARAMETERS" table .

Benefits

Flexibility & Optimized Inventory

- Wattage selectable by 4xDIP switches, or by DALI programmed.
- Push-fit secondary terminals for LED module wires

Human Centric Design

- Easy & Quick connection with push-fit terminals and clip-on end cap for strain relief, super large wiring space
- Loop in & loop out function, max.2.5mm² cross section L,L,X,X,N, N,CS,CS,DA,DA,DA,DA stranded wire or solid wire

Suitable for Emergency Lighting

- Suitable for Central Emergency System, CBS (central battery system)
- 50/60Hz and 0Hz(for emergency system)
- Suitable for emergency escape lighting systems according to EN 50172, LEDGEAR® can work with emergency DC voltage input, such as work with backup or emergency LED drivers(batteries).

Datasheet

MODEL		C850-421100DB
Output	Output voltage	14-42V (Output current≤900mA); 14-38V (Output current>900mA);
	Rated current	350 -1100mA (preselected 350mA)
	Maximum power	41.8W
	Current tolerance	±5%
	Ripple voltage ²	220mVp-p
	Ripple current	30mA _{p-p}
	Line regulation	±1%
	Load regulation	±3%
	Flicker percentage ³	<3%
	Starting time	<500mS
	Turn off time	<2.0S
	Noise ⁴	<22dB
Input	Voltage	Rated:220-240V; Range:200-264V;
	Frequency	Rated:50-60Hz, 0Hz; Range:47-63Hz, 0Hz;
	Power factor	≥0.9; (Output power ≥ 15W)
	I-THD ⁵	<15% (Output power ≥ 15W)
	Efficiency ⁶	≥88%
	AC current	Max. 300mA
	Inrush current ⁷	35A
	Inrush current time	55uS
	Leakage current	<1mA
	ON/OFF switches cycle	>100,000
	Standby power	<0.5W
DALI & PUSH Control	Dimming control mode	PWM
	Dimming control type	DT8(2 channels dimming and color tuning)
	DALI Input Voltage	Rated:16V; Range:9.5-22.5V;
	DALI Input (Bus) Current	Rated:1.6mA; Range:1.5-1.7mA;
	PUSH Input Voltage	Rated:220-240Vac; Range:200-264Vac;
	PUSH Input Frequency	Rated:50-60Hz; Range:47-63Hz;
	Dimming Range	DALI-2: 2%-100%; Push-DIM: 3%-100%;
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014, IEC 62386-207: 2009, IEC 62386-209: 2009, DALI Part 150:2019
Protection	Over current	Constant current limiting, recovers automatically after fault condition is removed
	Over voltage	Shut down output voltage, with auto-recovery or re-power on to recovery
	Over temperature	Shut down output voltage, recovers automatically after temperature goes down
	Short circuit	Constant current limiting, recovers automatically after fault condition is removed
Safety & EMC	Safety standards	EN61347-2-13; Design refer to TUV EN60950-1, TUV EN61347-1
	Withstand voltage	I/P-O/P:3KVac I/P-FG:1.5KVac O/P-FG: 500Vdc
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25°C/75%RH
	EMC emission ⁸	EN55015B, EN55022 Class B, EN61000-3-2, EN61000-3-3
	EMC immunity	EN61000-4-2, EN61547, EN55024, EN-61000-4-5 Surge immunity Line-Earth: 2KV, L Line- N Line:1KV;
Environment	Ambient temperature range ⁹	-25°C ~ +50°C
	Max. case temperature(tc) ¹⁰	90°C
	Relative humidity range	20% ~ 85%RH
	Storage temperature range	-30°C ~ +75°C

max. No. of PSUS(Driver supply unit) on miniature circuit breaker(MCB)	MCB TYPE A	10A	26pcs @ 36V, 1100mA Output	
		16A	42pcs @ 36V, 1100mA Output	
		20A	52pcs @ 36V, 1100mA Output	
	MCB TYPE B	10A	28pcs @ 36V, 1100mA Output	
		16A	45pcs @ 36V, 1100mA Output	
		20A	56pcs @ 36V, 1100mA Output	
	MCB TYPE C	10A	33pcs @ 36V, 1100mA Output	
		16A	52pcs @ 36V, 1100mA Output	
		20A	65pcs @ 36V, 1100mA Output	
	Lifetime(hrs) _{at} t _c =70°C		>60,000H	
	MTBF [MIL-HDBK-217F(t _a =25°C)]		489.6K Hrs min	
	Glow wire test		850°C for 5S; 650°C for 30S	
	Dimension L x W x H		200 x 73 x 29.8mm	
Warranty years		5 years		
(*If demand other output voltage and output current, contact your sales consultant or contact us: www.kinglumi.com)				