

Constant Current Control Gear, 2 Channel, DALI DT8 Dimmable -LED Drivers



ECG Versions

\*Photograph is for viewing purpose. Technical data not to be drawn from this picture

Order No.	Model	Wattage (W)	Output Voltage Range (DC)	Output Current Range (mA)
10327665	CCD170-15SR02/TUdT8	15	6-42	100-700
10327660	CCD1140-45SR04/TUdT8	45	6-54	500-1400

Performance Characteristics

- \* DALI-2 , DT8-Dimmable 2-channel ECG for CCT Tuneable Operation of LED Modules
- \* High Efficiency 80 - 88% (100% Load)
- \* Input Voltage Range - 180-264VAC
- \* Mains Overvoltage Protection upto 440VAC for 2 Hrs.
- \* Surge Protection Up to 2KV
- \* ECG extensively protected against abnormal Operating conditions at the output e.g. Short-circuit, Open circuit.
- \* Nominal service life - 30,000 Hrs. at  $t_c = t_c \text{ max}$
- \* Current selectable via NFC Program tool
- \* Suitable for Indoor LED Lighting applications

Applications

- Office
- Shops

Markings



## Constant Current Control Gear, 1 Channel, DALI Dimmable - IP20 LED Drivers

### General technical

Rated Input Voltage	220-240VAC
Rated Frequency	50/60Hz
Max Admissible input Voltage Range(VAC)	180-264VAC
Total Harmonic Distortion(THD)	<10% at full load
Output Current Tolerance	+/-3%
Max. Ripple Output Current(With LED Load)	<10%
Galvanic Separation to mains input	Basic Insulation(1.5KV)
Starting time	<1 Sec
Power factor	>0.94 @230Vac Full Load
Efficiency(Full Load)	80-88% @230Vac Full Load
Open Circuit Protection	Yes
Output short circuit protection	Yes
Connector Type	Push Terminal
Wire Cross section	0.5 sq.mm - 1.5 sq.mm
Wire Stripping length	8.5-9.5mm
Max wire length to LED Modules	<2 Meter
Max Surface Temp acc. EN61347-2-13/C5C	115°C
Ambient Temp	-25°C to 45°C
Case Temp	85°C
Degree of Protection	IP20
Surge Level	2KV
Dimming Interface	DT6
Dimming Range	0.01% - 100% @Max Current
Dimming Method	Amplitude/CCR dimming
Dimming Curve	Linear/Log

### Operating Data

Order No	Input Current (A)	Input Power (W)	Power Factor	Athd (%)	Efficiency (%)	Output Currents (mA)	Output Voltage (VDC)	Output Power (W)	Dimension (mm)
10327665	0.1A	18	0.97	10%	80%	100-700	6-42	15	135x35x20
10327663	0.2A	50	0.96	10%	88%	500-1400	6-54	45	145x45x28

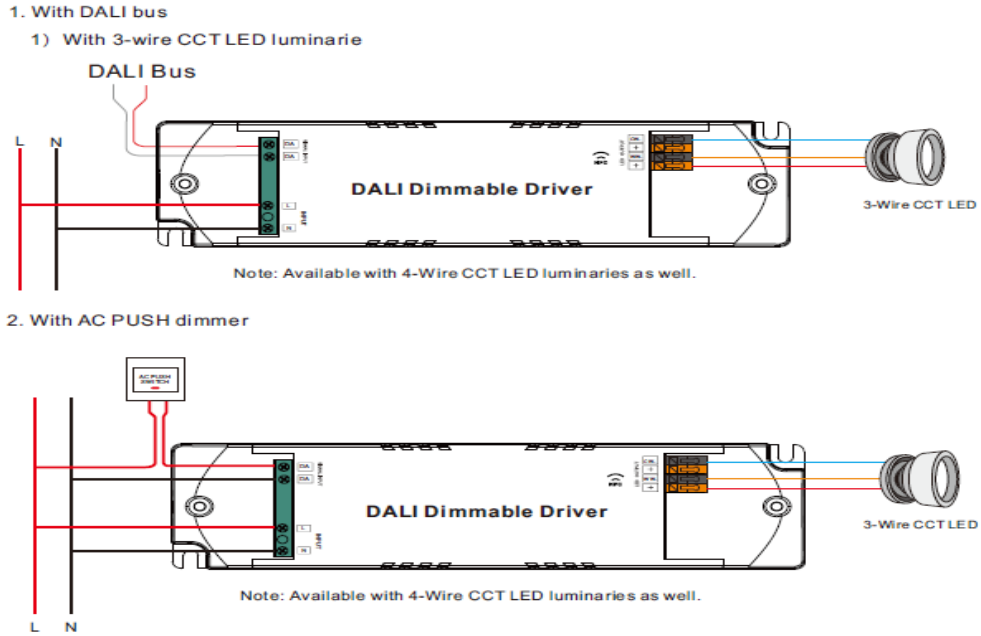
All specifications at 230 Vac nominal operations & 100% load

### Safety & Warnings

- \*Read All instructions carefully before installation
- \*Check driver's output current rating with LED's current rating before installation
- \*Do not install when power applied to the device
- \*Do not expose driver to wet surface/moisture

Constant Current Control Gear, 1 Channel, DALI Dimmable - IP20 LED Drivers

Wiring Diagram



Push-button operation / supplementary functions

Push-button operation

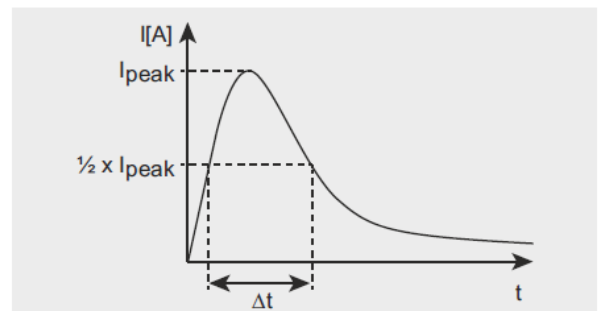
Short button press	Status: LEDs switched off	Status: LEDs switched on
Short button press	Switching on of LEDs to the last dimming level (memory function)	Switching off of LEDs and saving of current dimming level; ECG in standby mode
Long button press	Switching on of LEDs to the last dimming level and then dimming up or dimming down	Dimming up or dimming down of LEDs; each release and

In ad-

Circuit breaker / Inrush current

Order No.	Typ. I peak /	LS Type	10A	13A	16A	20A	25A
10327665	3.96A/90us	B	34	45	56	70	90
10327665		C	60	80	94	120	150
10327663	8.56A/88us	B	16	20	26	32	40
10327663		C	26	34	42	52	66

Typical current - time profile when switching on

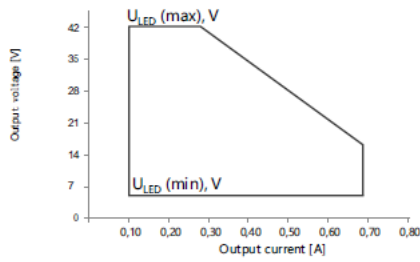


-Data for U supply = 230 VAC, mains impedance = 1 Ω  
 - In case of multi-polar CB the maximum number is reduced by 20 %  
 - The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.  
 - Basically, CB with C-characteristics are recommended to be used in lighting groups.

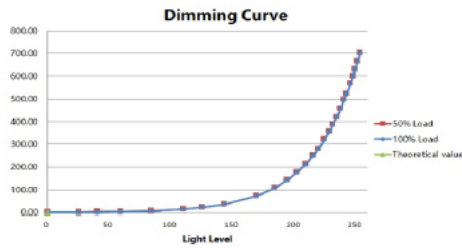
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**Graphs of various parameters of drivers**

**Operating window**



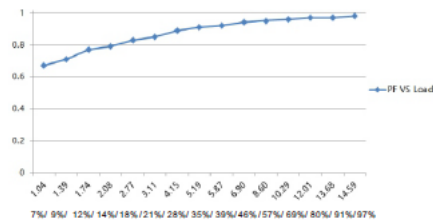
**Dimming Curve**



Note: Test data under 700mA gear

**Driver Performance**

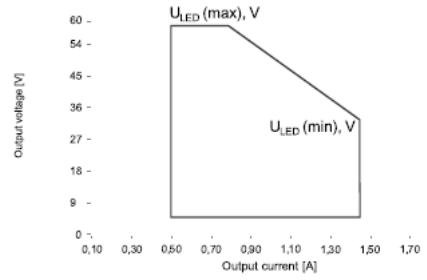
**PF VS Load**



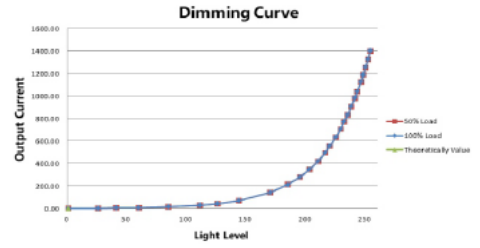
Note: Test data under 700mA gear

A.10327665

**Operating window**



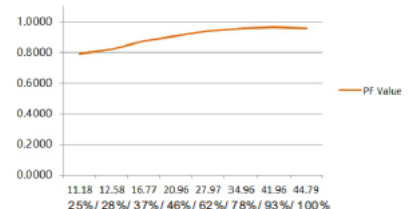
**Dimming Curve**



Note: Test data under 1400mA gear

**Driver Performance**

**Typical Power Factor**



Note: Test data under 1400mA gear

B.10327663

**Logistic Data**

Order No	Weight/pc (Kg)	Driver Dimension (mm)	Standard Box (pcs)	Weight/ Box (Kg)	Box Dimension (mm)
10327665		135x35x20			
10327663		145x45x28			

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