DALI DT-6 / DT-8 DIMMABLE LED DRIVER

PRODUCT DATASHEET | JUDL20N-DT-6/DT-8



KEY FEATURES

- Digital Dimming via DALI Bus
- 1%–100% Smooth Dimming
- Flicker-Free Light Output
- Long Lifetime & High Reliability
- Linear Dimming Curve for Precise Light Control
- High Efficiency and Low Standby Power Consumption

APPLICATIONS

Suitable for indoor use: COB light, panel light, down light, offices, shopping centers, hospitals, restaurants, hotels, etc.

DESCRIPTION

JUDL20N-DT-6/DT-8 is a constant current DALI-2 LED driver with DT6 and DT8 (Tunable White/CCT) support. It provides smooth flicker-free dimming from 1% to 100%, precise brightness and colour temperature control through a single DALI address, and is fully compatible with DALI-2 lighting control systems.

Built-in over-voltage, over-current, short-circuit, and surge protection ensure safe and reliable operation.

DALI DT-6 / DT-8 DIMMABLE LED DRIVER

MODEL NO. & WATTAGE

Model No.: JUDL20N-DT-6/DT-8
Output Wattage: 6W to 24W

DIMENSION & WEIGHT

Parameter	Value
Length	172 mm
Breadth	37 mm
Height	22 mm
Connector	Yes
Weight	80 g
Cable Cross-section, Input Side	0.2…1.5 mm²
Cable Cross-section, Output Side	0.2…1.5 mm²
Wire Preparation Length, Input Side	8.0…9.0 mm
Wire Preparation Length, Output Side	8.0…9.0 mm

TECHNICAL PARAMETERS

Parameter	Value
Input Voltage	220V–240V AC
Input Wattage	18W–25W
Output Wattage	6W–24W
Frequency	50–60 Hz
Power Factor (full load)	>0.95
THD (full load)	<10%
Efficiency (full load)	>80%
Inrush Current	<6A
O/P Current Type	DC
O/P Current Tolerance	10%
Galvanic Isolation	SELV
Output Voltage (No Load)	40–60Vdc Max

DALI DT-6 / DT-8 DIMMABLE LED DRIVER

DIMMING & PROTECTION

Parameter	Value
Dimmable	Yes
Dimming Interface	DALI (DT6 / DT8)
Dimming Range	1–100%
Surge Protection	Up to 6 KV
Over Voltage Protection	Yes
Over Current Protection	Yes
Short Circuit Protection	Yes
Class	II
Suitable for Emergency Lighting	No
Isolated	Yes

ELECTRICAL DATA

Parameter	Value
Max. ECG No. on Circuit Breaker 10A	30–40 pcs
Max. ECG No. on Circuit Breaker 16A	50–65 pcs
Max. ECG No. on Circuit Breaker 25A	80–100 pcs
Surge Capability (L/N–Ground)	0.5 KV
Surge Capability (L–N)	1 KV
U-out (Working Voltage)	36–62 V
Output Ripple Current (100Hz)	<3% (typ.)
Device Power Loss	6 W

LIFESPAN

Parameter	Value
ECG Lifetime	100,000 h @ Tc = 68°C

DALI DT-6 / DT-8 DIMMABLE LED DRIVER

TEMPERATURE & MATERIAL

Parameter	Value
Ambient Temperature	60°C
Case Temperature	80°C
Enclosure Material	Plastic (PC)
Enclosure Color	Upper - White

STANDARDS & CERTIFICATES

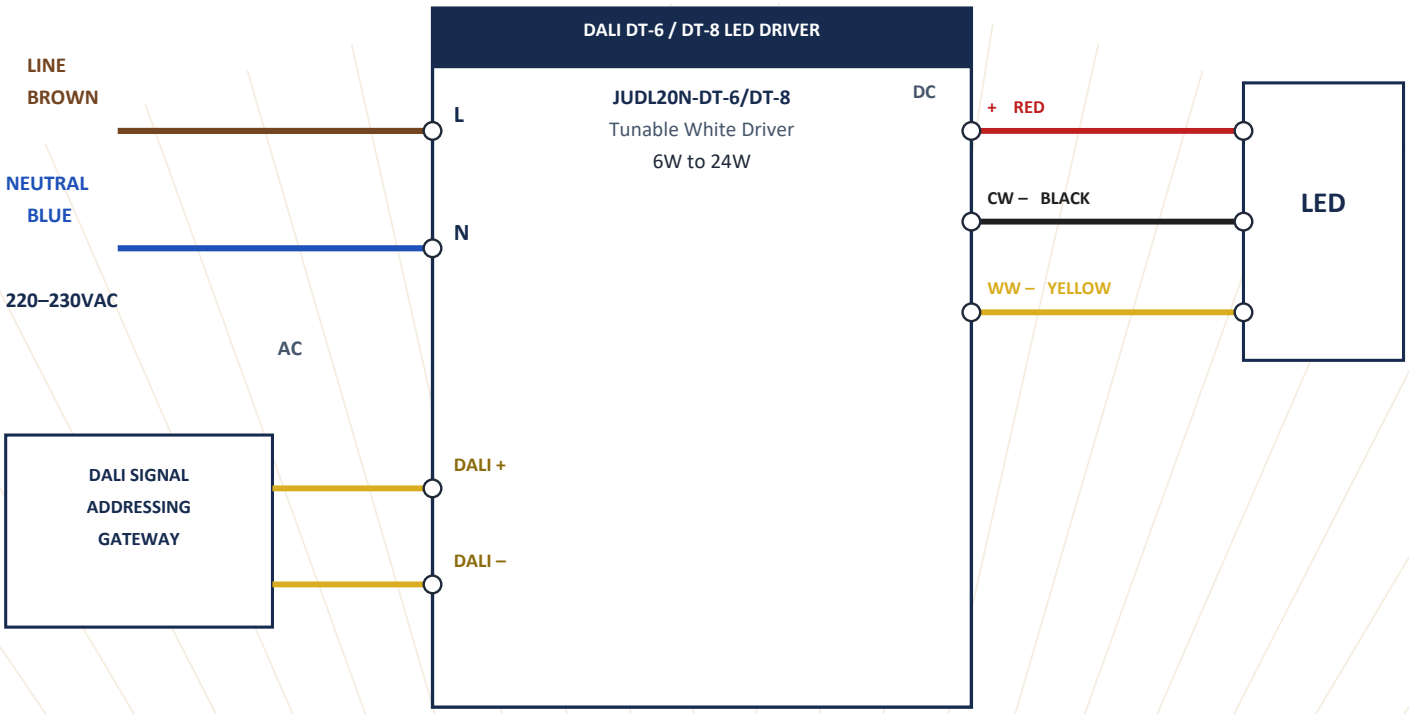
Parameter	Value
Standards	IEC61347-1, IEC 61347-2-13, IEC 62384, CISPR 15, IEC 61000-3-2, IEC 61000-3-3, IEC 61547
Certificates	BIS (R-71027472)

REFERENCE

Parameter	Value
Model No.	JUDL20N-DT-6/DT-8
Source Document	JSK URJA Product Datasheet — JUDL20N-DT-6/DT-8 (JU2601-P001-1)
Contact	www.jskurja.com | sales@jskurja.com | +91 9920730373

JSK URJA DALI DT-6 / DT-8 DRIVER
CONNECTION DIAGRAM

SINGLE CONNECTION



Wire Input: Line – Brown, Neutral – Blue

DC Output: LED + Red, CW – Black, WW – Yellow

DALI signal: DALI + and DALI – Yellow, from the addressing gateway

Connector: Yes

Cable cross-section, input and output: 0.2…1.5 mm²

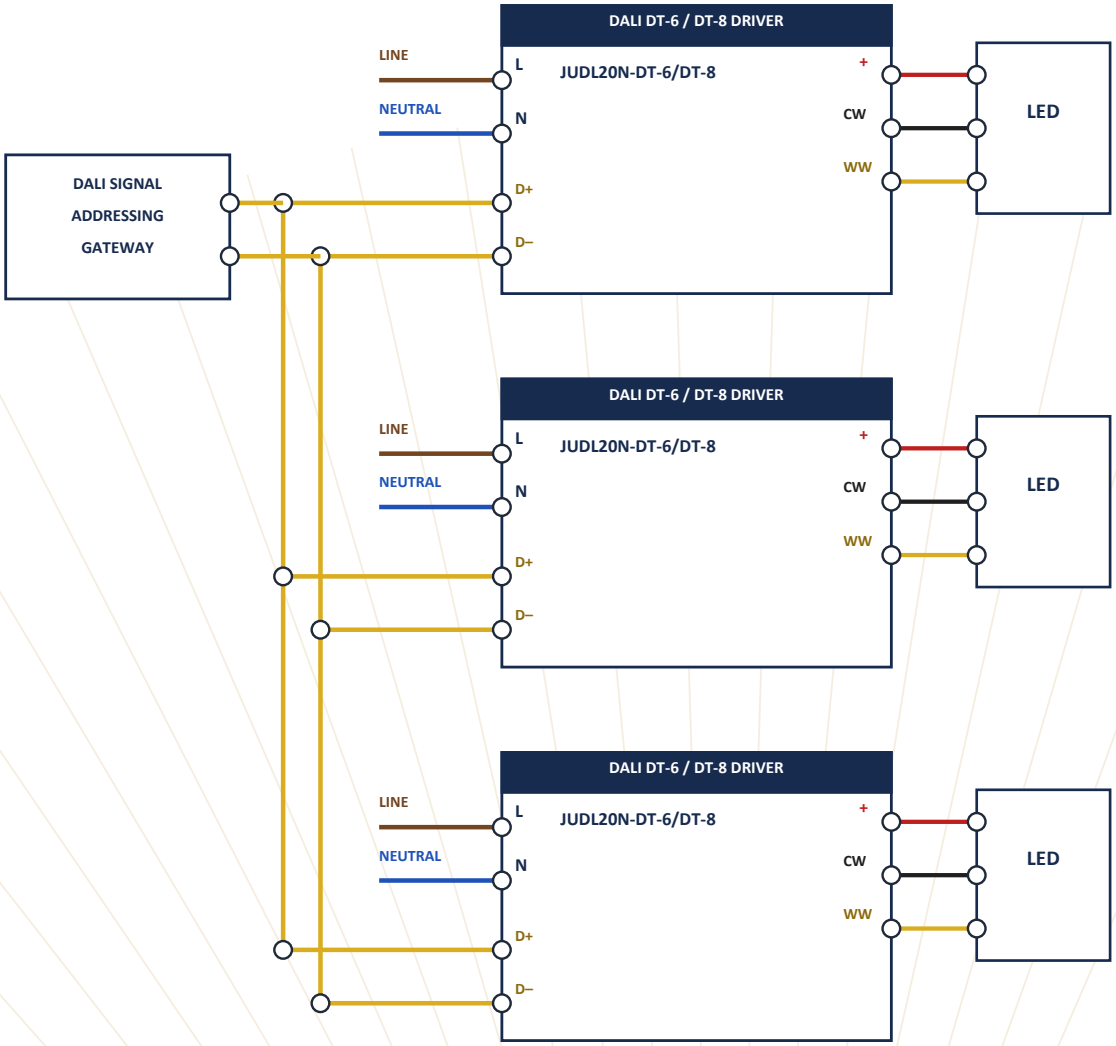
Wire preparation length, input and output: 8.0…9.0 mm

Single connection. Supply 220–230VAC as on the DT-8 connection diagram.

Source wiring preserved

JSK URJA DALI DT-6 / DT-8 DRIVER
CONNECTION DIAGRAM

LOOP CONNECTION



Each driver has its own AC supply and its own LED load (CW and WW).

The DALI + and DALI – signal is looped in parallel from one addressing gateway.

Wire Input: Line – Brown, Neutral – Blue

DC Output: LED + Red, CW – Black, WW – Yellow

Connector: Yes Cable cross-section: 0.2…1.5 mm²

Loop connection shown. Supply 220–230VAC as on the DT-8 connection diagram.

Source wiring preserved