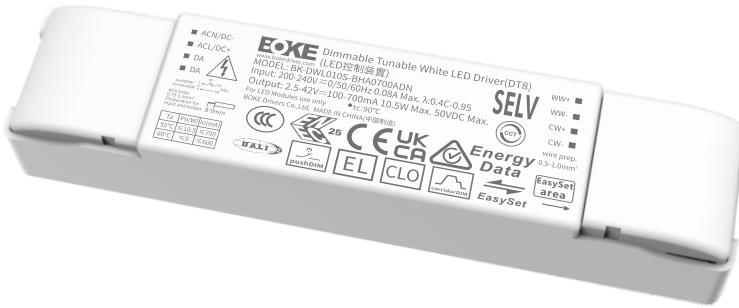


Constant current linear tunable white driver

DWL(S) Series suffix DN(DALI-2 DT8+pushDIM+pushCCT+EnergyData+EL+CLO+DALI programmable+NFC programmable)



Features

- Support DALI-2+pushDIM+pushCCT control
- Configured as a DT6 (1-channel) or DT8 (Tunable White) driver through programming
- Support EnergyData function and energy-reporting reading(DALI Part 252)
- Support luminaire data reading(DALI Part 251),support diagnostics-maintenance reading(DALI Part 253)
- Support advanced functions such as corridorDIM,EL,CLO
- The output current programming can be realized through the DALI interface and the NFC interface
- Soft dimming and flicker-free at any brightness
- Using HPC patented technology, at any dimming level, the brightness of the lights is the same
- Standby power input<0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- Screw-free and pressing type strain relief, supports thicker cables and is easier to install
- Intelligent LED hot-plug protection function
- SELV and Class II design, suitable for use outside of the luminaires
- 5.5-year guarantee

Interfaces

- DALI-2(DT6/DT8,part 251,252,253)
- PUSH (pushDIM,pushCCT,dorridorDIM)

Functions

- Support DALI part 251,252,253
- PUSH dimming (pushDIM) and PUSH color temperature (pushCCT) with memory
- Support central emergency application
- Support self-contained emergency application
- Emergency lighting(EL)
- Constant light output function(CLO)
- Corridor dimming (corridorDIM)
- Programming via DALI(EasySet)
- Programming via NFC(EasySet)
- Protective features
(short-circuit, overload,no-load, over temperature, hot plug-in protection)

Suitable for lights

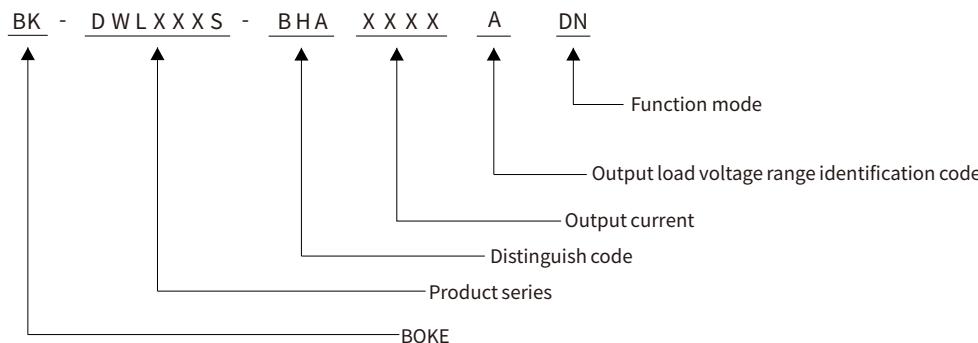
- Suitable for downlights or spotlights with **small mounting holes**

Typical applications

- LED indoor lighting
- LED office lighting
- LED commercial lighting



Model coding rules of DWL(S) series



Function list

| Model | suffix | DIP-switch | Wired dimming | | Advanced functions | | | | | Device Configuration | |
|----------------|--------|------------|---------------|---------------|--------------------|----|-----|------------|-------------|----------------------|----------------|
| | | | DALI-2 | PUSH(DIM/CCT) | AOC | EL | CLO | EnergyData | corridorDIM | DALI interfaces | NFC interfaces |
| BK-DWL010S-BHA | DP | √ | √ | √ | √ | √ | √ | √ | √ | √ | |
| | DN | | √ | √ | √ | √ | √ | √ | √ | √ | √ |

*The description in this specification is only applicable to the products with the suffix DN and the model are DWL010S-BHA.

Model list

| Model | Input voltage | Output power | Output voltage | Output current | Dimension |
|-----------------------|---------------|--------------|----------------|----------------|------------------|
| BK-DWL010S-BHA0700ADP | 200-240VAC/DC | 10.5W MAX. | 2.5-42VDC | 0.1-0.7A | L129*W29.5*H20mm |
| BK-DWL010S-BHA0700ADN | | | | | |

*The description in this specification is only applicable to the products with the suffix DN and the model are DWL010S-BHA.

Technical data

| | |
|-------------------------------------|--|
| Product model | BK-DWL010S-BHA0700ADN |
| Output parameters | |
| Regulation method | Constant Current |
| Rated output current range | 0.1-0.7A, see the operating window for details |
| Rated output voltage range | 2.5-42VDC, see the operating window for details |
| Rated output power | 10.5W Max, see the operating window for details (The voltage deviation of warm white and cool white light strings should be less than 0.5V) |
| Output current adjustment | EasySet programmable |
| Output current ripple(typ.) | ± 7%(65kHz) |
| Output current accuracy | ±5% |
| Linear regulation | ±3% |
| Load regulation | ±3% |
| No load output voltage | 50VDC |
| Flicker-free(typ.) | Flickering percent(IEEE 1789)=0.172%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.035, SVM = 0.001, (The above parameters are obtained from testing the panel lights) |
| Input parameters | |
| Rated input voltage range | 200-240VAC 200-240VDC |
| Input voltage range | 180-264VAC 180-264VDC |
| Input voltage shock | <380 V AC |
| Input current | <0.08A (Rated input voltage) |
| Input frequency | 0/50/60Hz |
| Input PF/Input DF(typ.) | PF: 0.96, DF: 0.96, see the electrical values below for details |
| Input THD(typ.) | 9%, see the electrical values below for details |
| Efficiency(typ.) | 84.5%, see the electrical values below for details |
| In-rush current(typ.) | 0.707A peak, 38us duration(50 % Ipeak), see the description below for details |
| Start/Switchover/Turn off | <0.7s(AC start), <0.7s(DC start), <0.3s(AC/DC switchover), <0.5s(Turn off) |
| Switching cycles | >100,000 switching cycles |
| Power consumption(typ.) | Full load(Pin): 12.4W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A |
| Safety | |
| Withstand voltage | I/P-O/P(LED): 3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC. |
| Mains surge capability | L-N: 2KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:A) |
| Leakage current(typ.) | 0.6mA |
| Isolation resistance | I/P-O/P: 100MΩ/500Vdc/25°C/70%RH |
| Control interface | |
| DALI dimming port | Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA |
| pushDIM dimming port | Voltage range: 180-264V 47/63Hz |
| 1-10V 3in1 dimming port | N/A |
| Auxiliary power supply | N/A |
| Dimming range | 0.1-100%(minimum current: 0.7mA) |
| Dimming drive mode | AM(amplitude modulation) |
| Emergency support | |
| Central emergency system | Supported |
| Self-contained emergency | Supported |
| Environment & Life time | |
| Operating temperature | Ta=-20-50/60°C, see the Operating temperature for details |
| Case temperature | Tc=90°C |
| Operating humidity | 5-85% RH, non-condensing |
| Storage temp./humidity | -40-80°C, 5-85% RH, non-condensing |
| IP grade | IP20 |
| MTBF | 500,000H, MIL-HDBK-217F(25°C) |
| Life-time | Nominal life-time up to 100,000 h, see the description below for details |
| Vibration resistant | 10~500Hz, 5G 12min./1cycle, period for 72min. each along X,Y,Z axes |
| Acoustic Noise | <25dB(30cm, Normal operation) |
| Environmental protection | RoHS |
| Certifications and standards | |
| Compliance certification | CCC, CE, ENEC, UKCA, RCM, DALI-2, EL |
| Safety | GB/T 19510.1, GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384 |
| EMC | GB/T 17743, GB/T 17625.1, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547 |
| DALI-2 | IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2), IEC 62386-209(DALI-2), DALI part251, 252, 253 |
| EL | Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172 |
| RF | N/A |

Remarks

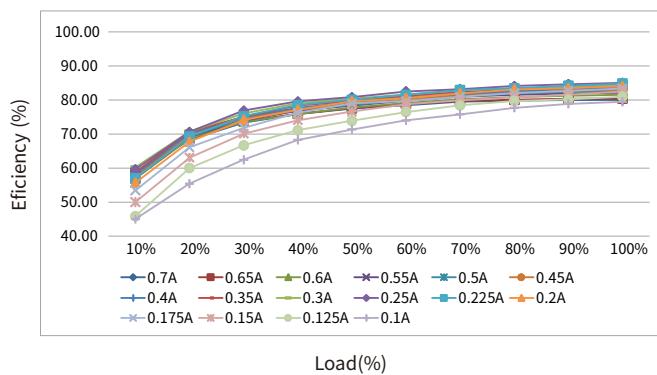
1. By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°C of ambient temperature.

2. The driver can not be installed inside the light. when the driver is used with the light, the EMC of the whole light needs to be tested.

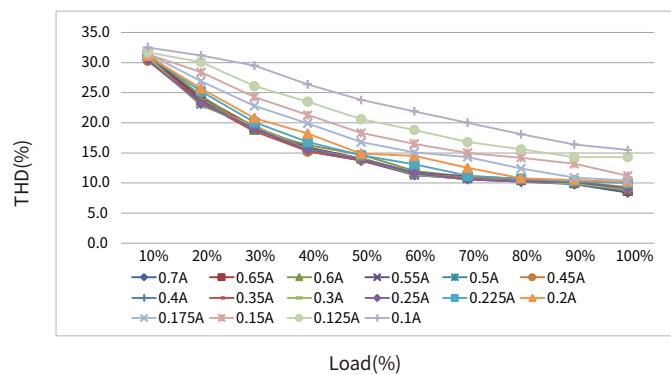
Electrical values

BK-DWL010S-BHA

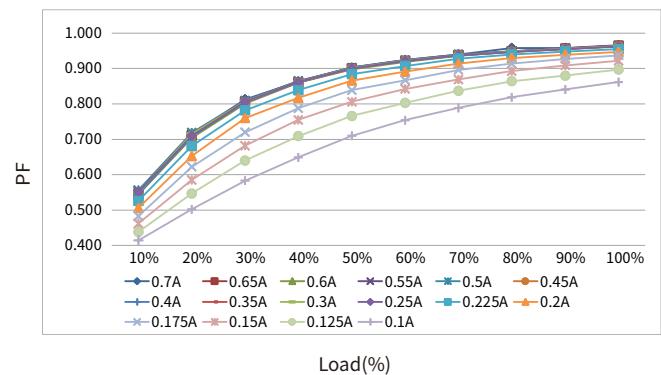
Efficiency vs. load



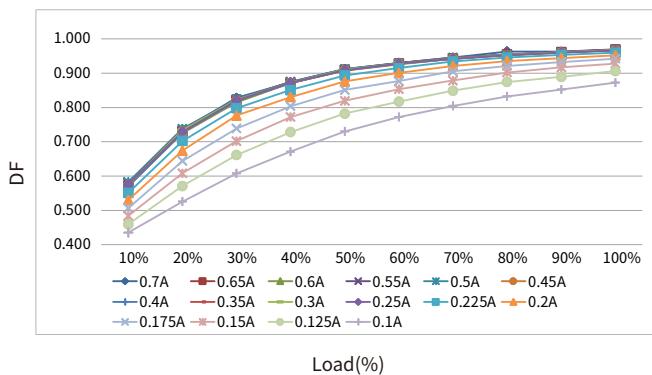
THD vs. Load



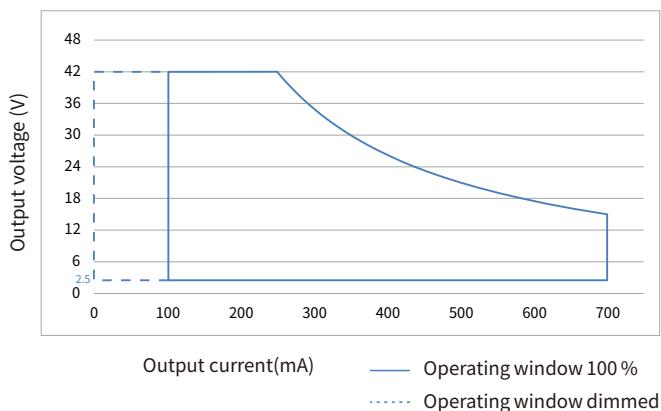
Power factor vs. Load



Displacement factor vs. Load



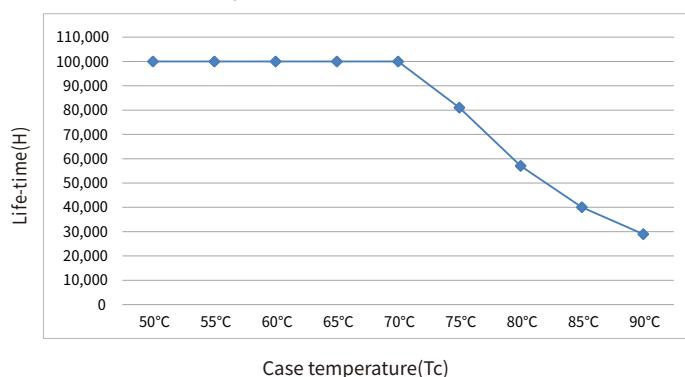
Operating window



- Output voltage x output current = output power
- The minimum current step is 1mA, the minimum voltage step is 1V, the voltage range is 2.5-42V, the current range is 100-700mA, and the voltage and current can be set arbitrarily under the premise that the output power does not exceed 10.5W.

Expected life-time

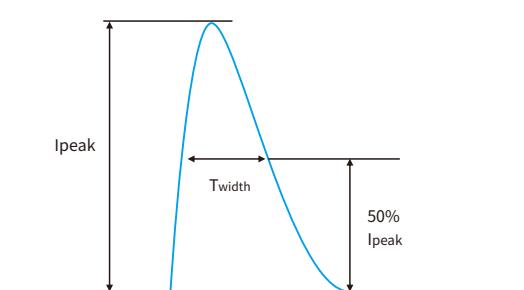
Life-time vs. case temperature



- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

Surge

| Model | Ipeak | Twidth | Condition | Relative number of MCB/pcs | | | | | | | | | | | | | | |
|----------------|--------|--------|--|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | B10 | B13 | B16 | B20 | B25 | C10 | C13 | C16 | C20 | C25 | D10 | D13 | D16 | | |
| BK-DWL010S-BHA | 0.707A | 38us | AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side | 144 | 187 | 230 | 288 | 360 | 144 | 187 | 230 | 288 | 360 | 144 | 187 | 230 | 288 | 360 |



Remarks

- The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
- Calculation uses typical values from ABB series S200 as a reference.
- Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.
- If the ambient temperature of the MCB installation exceeds 30°C or multiple MCBs are installed side by side, the number of drives mounted will be reduced and the calculation needs to be recalculated.
- Electrician's usually consider Type B for household lighting and Type C for commercial lighting application.

Functions

Output short-circuit behaviour

- Output short-circuit will not damage the driver. After removing the short circuit fault, the driver will automatically resume output.

Output no-load operation

- Output no-load will not damage the driver. Please turn off the driver first if you need to connect the LED load.

Output overload protection

- The LED driver turns off the output if the output voltage range is exceeded. The output will be activated again after restart the LED driver .

Output over temperature

- When the operating temperature exceeds the over temperature protection point inside the power supply IC, the power supply enters protection state such as output derating, output hiccup or output shutdown. After the external temperature is normal, restart and resume operation.

Output hot plug-in protection

- This function is used to prevent LED light that are far below the driver's no-load voltage burnout when hot plugged into a powered driver output.
- This function can be enabled or disabled through the programming interface. If enabled, when the LED light is connected to the powered driver, the LED light will not light up, you can restart the drive to restore normal. If disabled, when the LED light is connected to the powered driver, the LED light will turn on or off according to the current brightness level.
- Please refer to the parameters configure in the "Device configuration" section for information on whether the default factory settings are enabled.
- Factory default Enabled or not please check the "Device configuration" section.

Note:

When the hot plug-in protection is enable, the following applications may not achieve the expected effect:

1. When the output of the driver is connected to the color temperature switch: When the switch is used to change the color temperature, the hot plug-in protection of the driver will be triggered, and the LED will not be lit.

2. When the LED driver is used in conjunction with a self-contained (independent) emergency control device:

Use the self-check test switch of the emergency control device to test the emergency function and when exiting the emergency mode, the driver's hot plug-in protection will be triggered and the LED will not be lit. The above two application drivers should turn off the hot plug-in protection function in order to achieve good working results.

Driver restart method

There are two ways to restart the driver:

- Through the AC input: disconnect the AC of the driver and power it again.

- Through dimming interface.

DALI: send "OFF" command first, then send "MAX" command.

pushDIM: short press pushbutton two times, then long press pushbutton.

Tunable white functionality

- This driver have 2 output channels used to control the intensity and temperature of white colour as well known as "Tunable White".
- These drivers respond to DALI type 8 (DT8) commands, which in practice means that they only have 1 common address for both output channels .
- The tunable white level of intensity and colour temperature can be set either with a DALI command or by PUSH switch control.
- The higher the brightness, the wider the color temperature range can be obtained.

Adjustable output current (AOC)

- The output current of the driver can be adjusted within a certain range, and can be selected through the EasySet configuration software.

Corridor dimming (corridorDIM)

- Please see the "corridorDIM dimming" section.

Constant light output (CLO)

- The luminous flux of a LED decreases constantly over the life-time.
- The CLO function ensures that the emitted luminous flux remains stable. For that purpose the LED current will increase continuously over the LED life-time.
- In EasySet configuration it is possible to select a start value(in percent)and an expected life-time. The LED driver adjusts the current afterwards automatically.

Emergency lighting(EL)

- The driver works normally under DC input.
- When the driver is applied in DC input, the positive pole of the DC cable should be connected to the ACL/DC+ terminal, and the negative pole of the DC cable should be connected to the ACN/DC- terminal. If the connection is reversed, the driver will not be damaged, but it will affect the EL function normal work.
- The output response action after DC input can be set through the EasySet configuration software.

Setting 1: When DC input, the output of the driver remains unchanged, and the dimming function responds normally.

Setting 2 (default): When DC input, the output of the driver jumps to the set brightness of 15%, and the dimming function is invalid.

Configuration programming(EasySet)

- The programming configuration of the driver is realized using the BOKE EasySet programming suite and through the driver's DALI interface or NFC interface.
- Please see the "Device configuration" section.
- More information about the EasySet programming suite can be found at www.bokedriver.com.

Insulation between circuits

| Isolation | Input | Output | Case | DALI | PUSH |
|-----------|--------|--------|--------|--------|--------|
| Input | - | Double | Double | Basic | - |
| Output | Double | - | Basic | Double | Double |
| Case | Double | Basic | - | Double | Double |

Label

BK-DWL010S-BHA0700ADN



Laser engraving technique

Operating temperature & output current

BK-DWL010S-BHA0700ADN

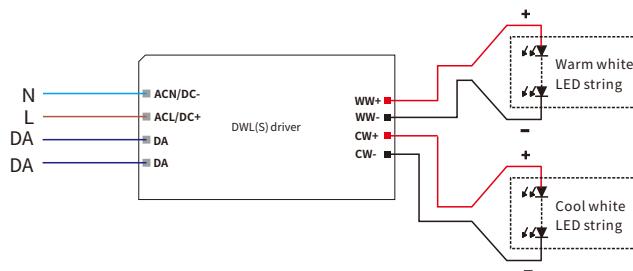
| TC | Ta | Output | |
|------|------|-----------|------------|
| | | Prated(W) | Irated(mA) |
| 90°C | 50°C | ≤10.5 | ≤700 |
| | 60°C | ≤9 | ≤600 |

Working Mode Specification

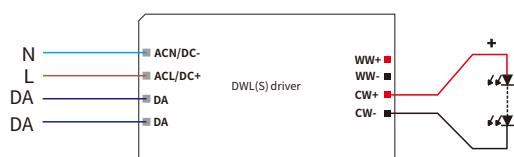
| Work mode | DALI Address number | Control method | Remark |
|-----------|---------------------|-------------------------------------|---|
| DT8 | 1 | Dimmable and tunable white fixtures | - |
| DT6_C | 1 | Dimmable only | The luminaire is connected to the CW output |
| DT6_W | 1 | Dimmable only | The luminaire is connected to the WW output |

Notes: 1. The factory default output mode is DT8 Mode, which can be switched via the BOKE EasySet software.

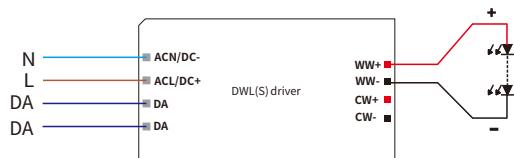
DT8 Mode Wiring Diagram:



DT6_C Mode Wiring Diagram:

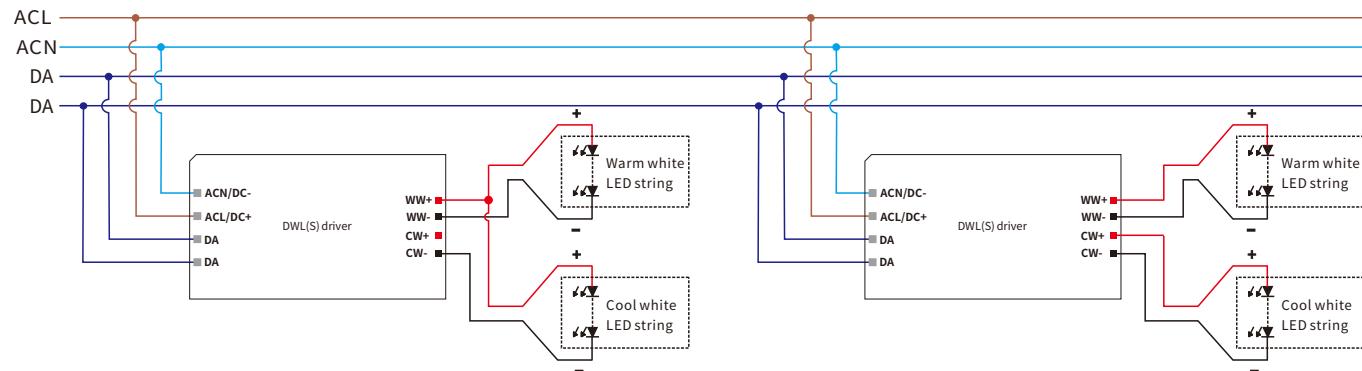


DT6_W Mode Wiring Diagram:



DALI dimming application

Wiring diagram



- Support common anode circuit connection
- Support independent circuit connection
- The voltage deviation of warm white and cool white light strings should be less than 0.5V
- Prohibit the use of single LED output in DT8 mode

Switch to the DALI dimming mode

- After installation according to the wiring diagram of DALI dimming application, the driver will automatically switch to the DALI control mode after receiving any DALI command.

Remarks:

- Standard DALI control line voltage range: 9.5V to 22.5V, type 16V.
- The two DALI control lines polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at $2 \times 1.5\text{mm}^2$.
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.
- The configuration parameters of the driver can be set through the DALI configuration tool or DALI application controller during installation, such as setting device address, group address, power-on level, bus-failure level, scene level, fade time, dimming curve, etc.

Please refer to the table below

| Cable size | Distance |
|---------------------------------|----------|
| $2 \times 0.50\text{mm}^2$ | max.100m |
| $2 \times 0.75\text{mm}^2$ | max.150m |
| $2 \times 1.00\text{mm}^2$ | max.200m |
| $\geq 2 \times 1.50\text{mm}^2$ | max.300m |

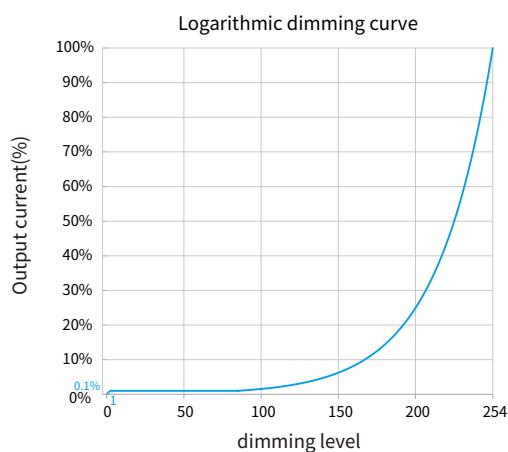
Power-on level:

When the driver is in DALI-2 dimming mode, the factory default level after each power-on is the brightest.

The power-on level can be set through the DALI configuration tool or DALI application controller during installation, and can be set to memory or fixed any brightness (such as off, darkest, 50%, etc.).

Note: The recommended setting for the default factory power-on level of the DALI-2 driver is the brightest in the DALI-2 standard.

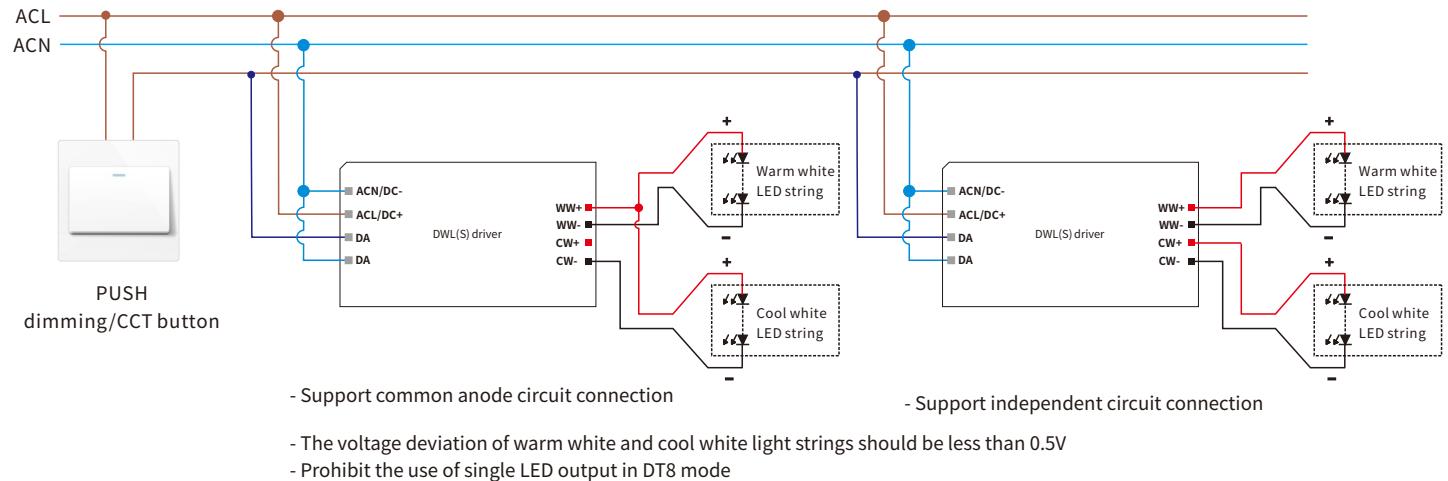
Dimming curve



Remarks: The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

pushDIM dimming application

Wiring diagram



Switch to pushDIM,pushCCT control mode

- After installation according to the wiring diagram of pushDIM,pushCCT control application, short press the pushbutton(PUSH port) 5 times within 3 seconds, the driver will automatically switch to pushDIM,pushCCT control mode.
- After switch to the pushDIM control mode, CorridorDIM mode will be automatically closed.

PUSH dimming switch operating instructions

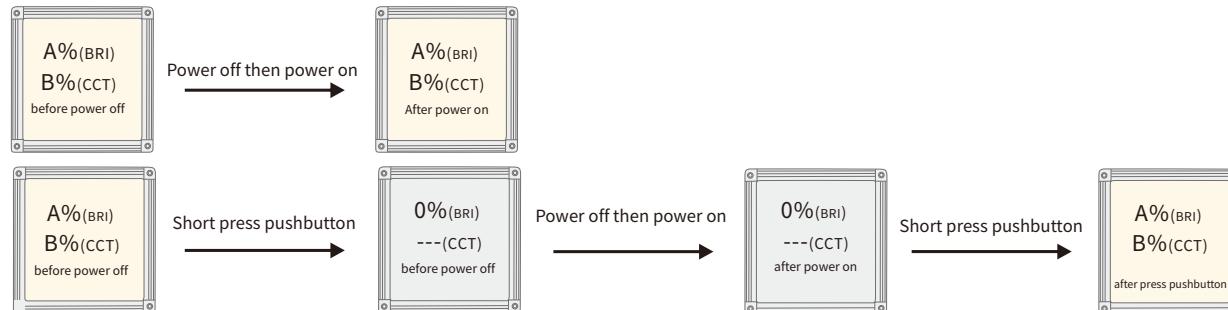
- Turn on or turn off: short press pushbutton for 0.2-1s.
- Stepless dimming : long press pushbutton to adjust the brightness (default dimming time is 6s), Press again to switch dimming directions.

PUSH CCT switch operating instructions

- Stepless CCT adjustment: long press the pushbutton until the brightness output is maximum, continue to press the pushbutton, the color temperature will automatically switch to the coldest, and then slowly gradually change to the warmest, and change back and forth. When the pushbutton is released when the desired color temperature is adjusted, the power supply will stop the color temperature change and save the current color temperature.

Power on status:

- After power on, the light state will be the same as the last dimming level and the last CCT level.
- If the light is on before the power is turned off, after turning the power back on, the brightness will be the same as the last time, and the color temperature will be the same as the last time.
- If the light is off before the power is turned off, the light will be turned off after the power is turned back on. You need to press the pushbutton for a short time to turn on the light. The brightness after lighting will be the same as the last time, and the color temperature will be the same as the last time.



Multiple lights synchronize brightness operations

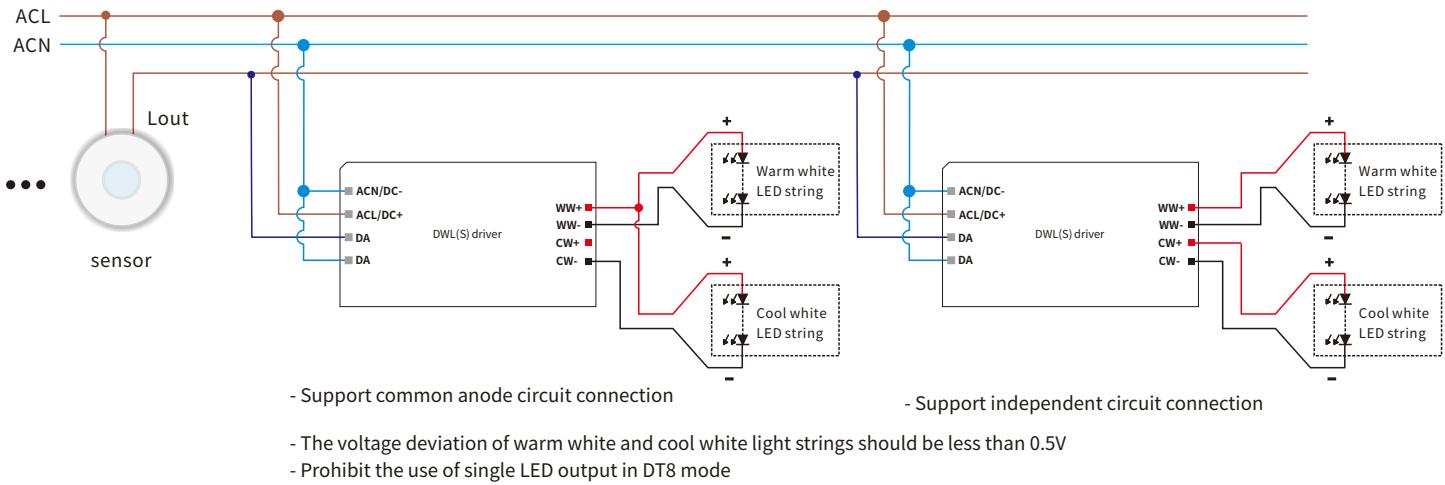
Step 1: long press the pushbutton, confirm each light is on.
 Step 2: short press the pushbutton, confirm each light is off.
 Step 3: long press the pushbutton, confirm each light is from darkest to brightest and all the lights are synchronous.

Multiple lights synchronized color temperature operation

Step 1: long press the pushbutton, confirm each light is on.
 Step 2: short press the pushbutton, confirm each light is off.
 Step 3: long press the pushbutton, confirm each light is from darkest to brightest and all the lights are synchronous.
 Step 4: continue to press and hold the pushbutton until all driver color temperatures change simultaneously.

corridorDIM dimming application

Wiring diagram



Switch to the corridorDIM dimming and color temperature mode

- Method 1: Switch by sensor.

After installation according to the wiring diagram of corridorDIM dimming and color temperature application, you can use the following two methods to switch.

Method 1: Keep the movement in the effective sensing area for 5 minutes, the corridorDIM dimming and color temperature function of the driver will be switched and output 100% brightness 100% color temperature (under the default setting).

Method 2: Switch by Hold-time

Set the hold-time of the sensor to more than 5 minutes. When the motion sensor detects a person and turns on the output for 5 minutes, the corridorDIM dimming and color temperature function will be switched and output 100% brightness 100% color temperature (Default), finally restore the hold-time that the sensor actually needs.

- Method 2: Switch by normal switch

After installation according to the wiring diagram of the corridorDIM dimming and color temperature application, first replace the sensor with a normal switch, and then turn on the normal switch for 5 minutes, and the driver will automatically switch to corridorDIM dimming and color temperature mode, then remove the normal switch and replace it with the sensor.

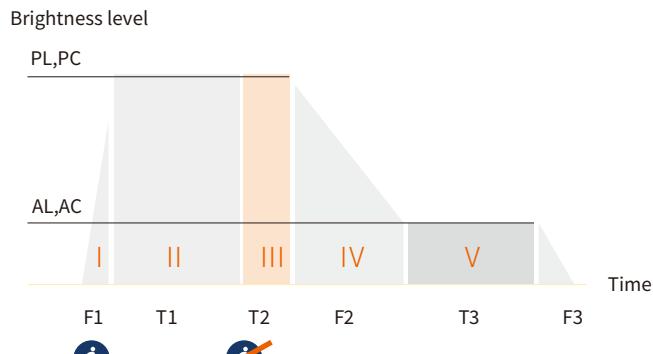
- After switch to the corridorDIM dimming and color temperature mode, the pushDIM dimming and color temperature mode will be automatically deactivate.

Remarks

- During normal working, it is recommended to set the hold-time of the motion sensor to the minimum.

- Need to use a motion sensor with AC switch.

corridorDIM working process



- The parameters of corridorDIM can be set through the configuration tool.
- corridorDIM is not activated by default.

| Name | Symbol | Factory setting | Settable range |
|----------------|--------|--------------------|------------------------------|
| Fade-in time | F1 | 1s | 0-100s |
| Presence level | PL | 100% | 0-100% |
| Presence CCT | PC | 100% (the coldest) | 0-100% |
| Hold-on time | T1 | By sensor setting | |
| Run-on time | T2 | 180s | 0-60000s |
| Fade-out time | F2 | 5s | 0-100s |
| Absence level | AL | 10% | 0-100% |
| Absence CCT | AC | 100% (the coldest) | 0-100% |
| Stand-by Time | T3 | unlimited | 0-59999s, 60000s (unlimited) |
| Fade-off time | F3 | 0s | 0-100s |

Device configuration

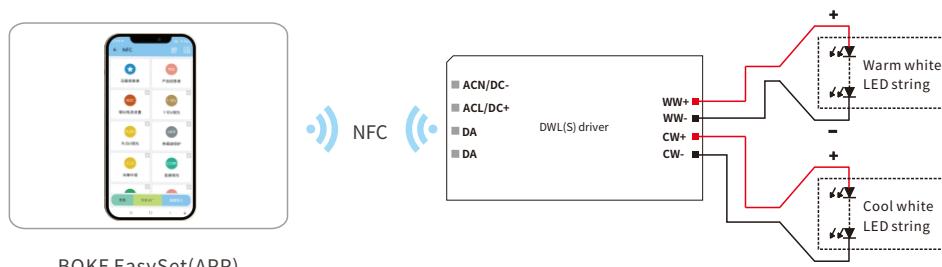
Optional 1:



- The driver does not require power
- The voltage deviation of warm white and cool white light strings should be less than 0.5V
- Support independent and anode circuit connection
- Prohibit the use of single LED output in DT8 mode

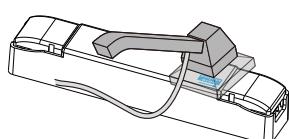


- The driver does not require power
- The voltage deviation of warm white and cool white light strings should be less than 0.5V
- Support independent and anode circuit connection
- Prohibit the use of single LED output in DT8 mode

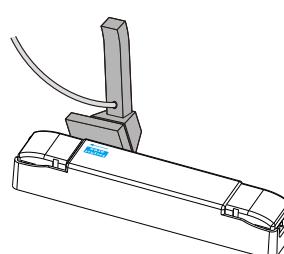


- The driver does not require power
- The voltage deviation of warm white and cool white light strings should be less than 0.5V
- Support independent and anode circuit connection
- Prohibit the use of single LED output in DT8 mode

NFC scanning area



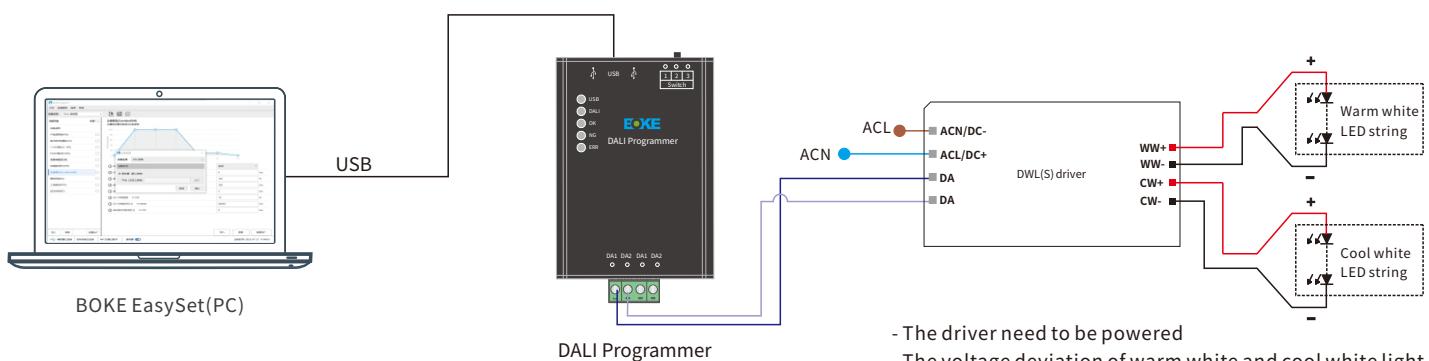
✗ Error scanning mode



✓ Correct scanning mode

Device configuration

Optional 2:



- The driver need to be powered
- The voltage deviation of warm white and cool white light strings should be less than 0.5V
- Support independent and anode circuit connection
- Prohibit the use of single LED output in DT8 mode

Software download(PC&mobile)



PC:Windows7/Windows10/Windows1132bit/64bit;

Mobile:Androidsystem≥6.0,iossystem≥14.0.

Configure tools and software

| Type | Name | Brand | Name | BOKE EasySet minimum version(PC) | BOKE EasySet minimum version(APP) |
|------------|----------------------|-------|------------------------|----------------------------------|-----------------------------------|
| Programmer | NFC desktop Reader | FEIG | CPR30+ | V1.0.0 | - |
| | NFC handheld Reader | FEIG | ID ISC-PRH101-USB | V1.2.2 | - |
| | NFC Bluetooth Reader | FEIG | ID ECCO Smart HF-BLE | - | V1.0.0 |
| | NFC batch Reader Kit | FEIG | RF-LRM1002-300/300 Kit | V1.3.4 | - |
| | DALI programmer | BOKE | BK-CS01-SDL | V1.0.0 | - |
| Software | PC Software | BOKE | BOKE EasySet | V1.0.0 | - |
| | APP | BOKE | BOKE EasySet | - | V1.0.0 |

Parameters configure

| Configuration items | Factory settings | Parameter configuration | Read/Write |
|--------------------------------|------------------|-------------------------|------------|
| Product information | - | NO | Read Only |
| Work mode(WMS) | Activated | YES | Read/Write |
| Adjustable output current(AOC) | Activated | YES | Read/Write |
| PUSH dimming(pushDIM/pushCCT) | Activated | YES | Read/Write |
| Corridor dimming(corridorDIM) | Activated | YES | Read/Write |
| Emergency lighting(EL) | Activated | YES | Read/Write |
| Power-on fading(POF) | Deactivated | YES | Read/Write |
| Constant light output(CLO) | Deactivated | YES | Read/Write |
| Hot plug-in protection(HPP) | Deactivated | YES | Read/Write |
| Run-time(RT) | | NO | Read Only |
| DALI Address(DA) | Activated | YES | Read/Write |
| DALI basic parameters(DP) | Activated | YES | Read/Write |
| DALI scene setting(DS) | Activated | YES | Read/Write |
| Other parameters | | YES | |

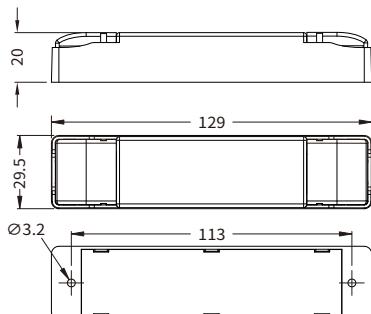
Note: The default factory mode of emergency lighting is derated mode, and the emergency brightness is 15%

Mechanical Specification

Size

Unit:mm

DWL010S-BHA



INPUT

| Numbering | function | colour |
|-----------|----------|--------|
| 1 | ACN/DC- | grey |
| 2 | ACL/DC+ | grey |
| 3 | DA | grey |
| 4 | DA | grey |

Input wire

0.75-1.5mm²
8-9mm

OUTPUT

| Numbering | function | colour |
|-----------|----------|--------|
| 1 | WW+ | red |
| 2 | WW- | black |
| 3 | CW+ | red |
| 4 | CW- | black |

Output wire

0.5-1.0mm²
8-9mm

Installation note

Hot plug-in

- When the function is not enabled, hot plug-in is not supported due to residual output voltage of > 0 V.
- If a LED load is connected the device has to be restarted.
- Restart can be achieved by re-powering the driver or executing a on/off command (action) through the control interface.

Installation requirements

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the driver shall not exceed the value of Ta at any time.
- The temperature of the mounting surface of the driver should be lower than the temperature of Ta.
- The driver should keep a certain distance from the heating stuff (such as the lamp radiator).
- If the driver is used externally (it needs to be used with the power end cover), the installation of the driver should also meet the following conditions:

- 1.The driver should be a certain distance between the drives, as shown in Figure 1.
- 2.The driver keeps a certain distance from surrounding objects, as shown in Figure 2.

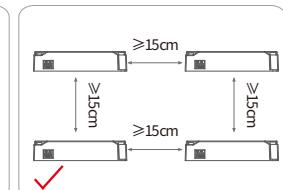
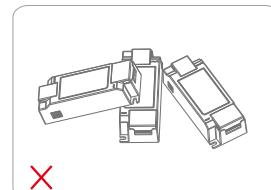


Figure 1

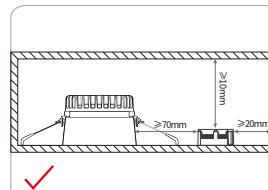


Figure 2

Wiring guidelines

- Prohibit the use of single LED output in DT8 mode
- 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).
- Max. lenght of output wires is 2m.
- Incorrect wiring can damage LED modules.

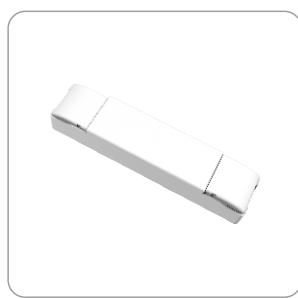
LED module

- The voltage deviation of warm white and cool white light strings should be less than 0.5V.

Replace LED module

1. Mains off
2. Wait more than 5 seconds
3. Remove LED module
4. Connect LED module again

Packaging



Product



Packaging



20pcs×6boxes=120pcs/CTN

| Model | Product size | Weight | Packaging size | Carton size | Qty/carton | N.W | G.W |
|-------------|------------------|--------|-----------------|------------------|------------|--------|--------|
| DWL010S-BHA | L129*W29.5*H20mm | 61g | L217*W133*H67mm | L285*W235*H220mm | 120pcs | 7.32KG | 8.74KG |

Additional information

1. This product can only be used outside the light body, Can not be used inside of the light, and it must be used within the specified working environment.
2. The life and MTBF of the product are for reference only, and do not represent a warranty statement.
3. For more information, please send an email to info@bokedriver.com.