

Constant current linear color temperature driver
DGL(S) Series suffix DN(DALI-2 DT8+pushDIM+pushCCT+EnergyData+EL+CLO
+corridorDIM+DALI programmable+NFC programmable)



Features

- Support DALI-2 DT8+pushDIM+pushCCT control
- 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, meets the new requirements of ErP certification
- Using HPC patented technology, at any dimming level, the brightness of the luminaries is the same
- Dimming range 1~100%, output current accuracy 2%
- High PF, high efficiency, low THD
- Intelligent LED hot-plug protection function
- SELV and Class I design, suitable for use inside of the luminaires
- Compliance with Zhaga Book 13 standards
- Compliance with CE, ENEC, UKCA, RCM, CCC, DALI-2, EL and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Interfaces

- DALI-2 (DT8)
- PUSH (pushDIM, pushCCT, corridorDIM)

Functions

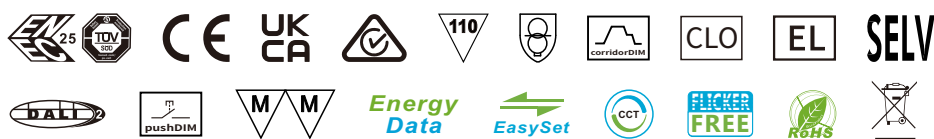
- Support DALI part 251,252,253
- PUSH dimming (pushDIM) and PUSH color temperature (pushCCT) with memory
- Support central emergency application
- Support self-contained emergency application
- Emergency lighting(EL)
- Constant light output function(CLO)
- Corridor dimming(corridorDIM)
- Programming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

Suitable for lights

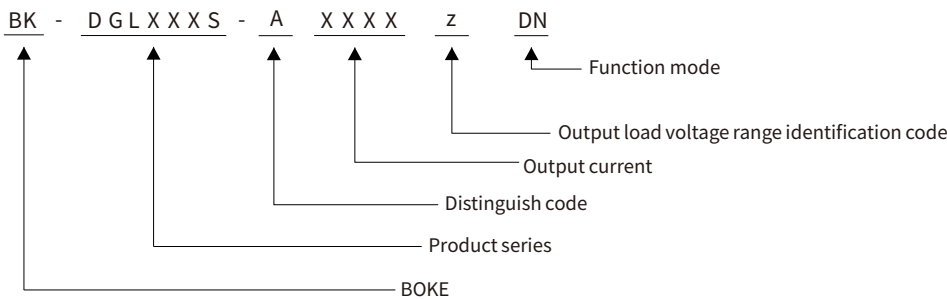
- Suitable for linear lights, tri-proof lights, working lights, bracket lights and other linear or ultra-thin lights etc.

Typical applications

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



Model coding rules of DGL(S) series



Function list

Model	Suffix	DIP-switch	Wired dimming		Advanced functions					Device Configuration	
			DALI-2	PUSH(DIM/CCT)	EnergyData	AOC	EL	CLO	corridorDIM	DALI interfaces	NFC interfaces
BK-DGL040S-A	DP	√	√	√	√	√	√	√	√	√	
BK-DGL080S-A	DN		√	√	√	√	√	√	√	√	√

*The description in this specification is only applicable to the products with the suffix DN and the model are DGL040S-A,DGL080S-A.

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-DGL040S-A1050ADP	200-240VAC/DC	40W MAX.	12-54VDC	0.15-1.05A	L280*W30*H21mm
BK-DGL040S-A1050ADN	200-240VAC/DC	40W MAX.	12-54VDC	0.15-1.05A	L280*W30*H21mm
BK-DGL080S-A2000ADP	200-240VAC/DC	80W MAX.	12-54VDC	1.25-2A	L360*W30*H21mm
BK-DGL080S-A2000ADN	200-240VAC/DC	80W MAX.	12-54VDC	0.5-2A	L360*W30*H21mm

*The description in this specification is only applicable to the products with the suffix DN and the model are DGL040S-A,DGL080S-A.

Technical data

Product model	BK-DGL040S-A1050ADN
Output parameters	
Regulation method	Constant Current
Rated output current range	0.15-1.05A, see the operating window for details
Rated output voltage range	12-54VDC, see the operating window for details
Rated output power	40W Max, see the operating window for details
Output current adjustment	EasySet Programming
Output current ripple LF	±1%
Output current accuracy	±2%
Linear regulation	±1%
Load regulation	±2%
No load output voltage	59VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.049%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.015, 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	<0.27A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.97, DF: 0.97, see the electrical values below for details
Input THD(typ.)	10%, see the electrical values below for details
Efficiency(typ.)	90%, see the electrical values below for details
In-rush current(typ.)	8.4A peak, 170us duration(50% Ipeak), see the description below for details
Start/Switchover/Turn off(typ.)	0.75s(AC start), 0.75s(DC start), 0.3s(AC/DC switchover), 0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin): 46.3W, No load(Pno): N/A, On stand-by(Psb): <0.6W, Network stand-by(Pnet): N/A
Safety	
Withstand voltage	I/P-O/P: 3750VAC, I/P-FG: 1750VAC, O/P-FG: 500VAC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.
Mains surge capability	L-N: 2KV, L-FG/N-FG: 4KV (Performance criterion: A) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typ.)	0.61mA
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	1-100%
Dimming drive mode	AM+PWM(<13%)
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta = -20-55/60°C, see the thermometer below for details
Case temperature	Tc = 85°C
Operating humidity	5-85% RH, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
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, Full load)
Environmental protection	RoHS
Certifications and standards	
Compliance certification	CE, ENEC, RCM, UKCA, DALI-2, CCC, EL
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547
DALI-2	EN 62386-101(DALI-2), EN 62386-102(DALI-2), EN 62386-207(DALI-2), EN 62386-209(DALI-2), DALI part 251, 252, 253
EL	Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

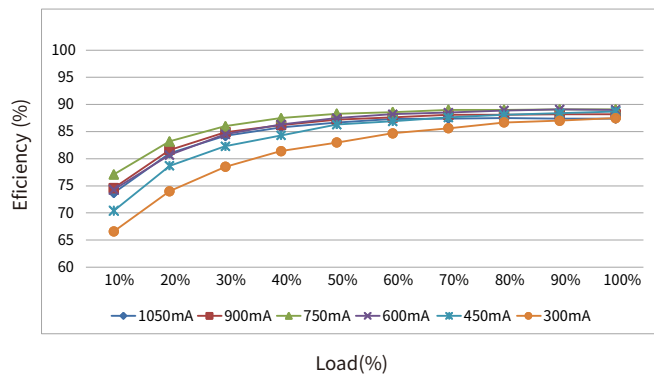
Technical data

Product model	BK-DGL080S-A2000ADN
Output parameters	
Regulation method	Constant Current
Rated output current range	0.5-2A, see the operating window for details
Rated output voltage range	12-54VDC, see the operating window for details
Rated output power	80W Max, see the operating window for details
Output current adjustment	EasySet Programming
Output current ripple LF	±1%
Output current accuracy	±2%
Linear regulation	±1%
Load regulation	±2%
No load output voltage	59VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.083%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.017, 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	<0.5A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.97, DF: 0.97, see the electrical values below for details
Input THD(typ.)	10%, see the electrical values below for details
Efficiency(typ.)	90.5%, see the electrical values below for details
In-rush current(typ.)	15.5A peak, 198us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typ.)	0.75s(AC start), 0.75s(DC start), 0.3s(AC/DC switchover), 0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):89.4W, No load(Pno): N/A, On stand-by(Psb) : <0.6W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750VAC, I/P-FG:1750VAC, O/P-FG:500VAC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.
Mains surge capability	L-N:2KV, L-FG/N-FG:4KV(Performance criterion:A)(90°/270°, 5 times each with an interval of 60s)
Leakage current(typ.)	0.61mA
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	1-100%
Dimming drive mode	AM+PWM(<13%)
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-50/55/60°C, see the thermometer below for details
Case temperature	Tc=80/85/90°C, see the thermometer below for details
Operating humidity	5-85% RH, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
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, Full load)
Environmental protection	RoHS
Certifications and standards	
Compliance certification	CE, ENEC, RCM, UKCA, DALI-2, CCC, EL
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	EN 62386-101(DALI-2), EN 62386-102(DALI-2), EN 62386-207(DALI-2), EN 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

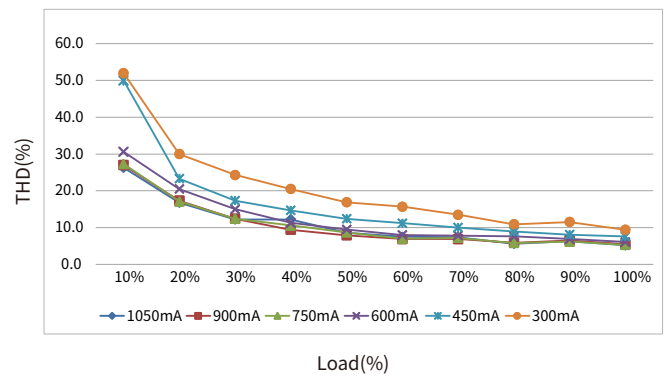
Electrical values

BK-DGL040S-A1050ADN

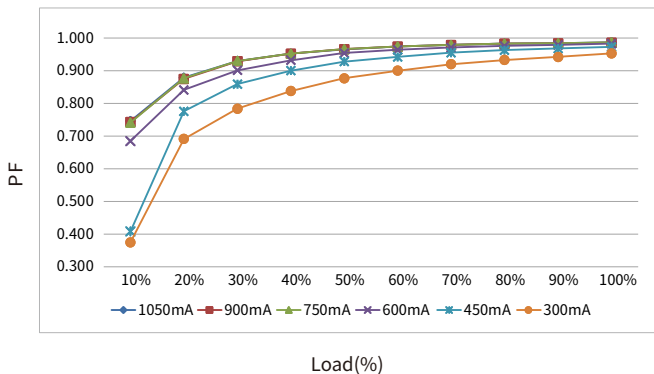
Efficiency vs load



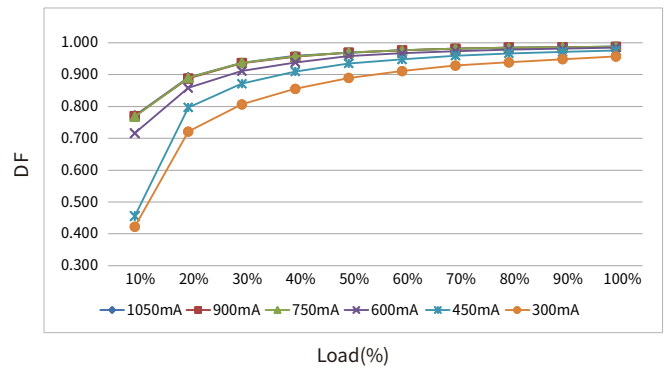
THD vs. Load



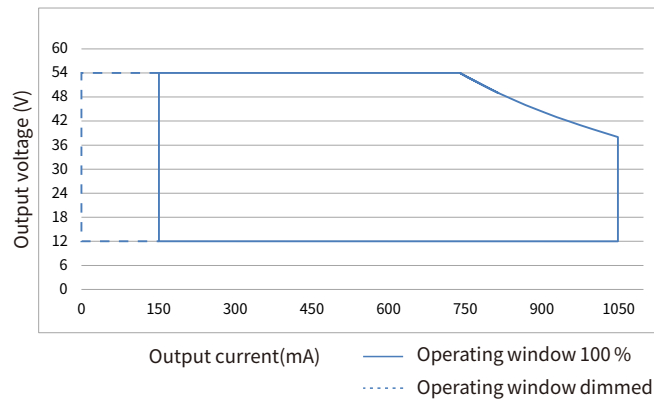
Power factor vs. Load



Displacement factor vs. Load



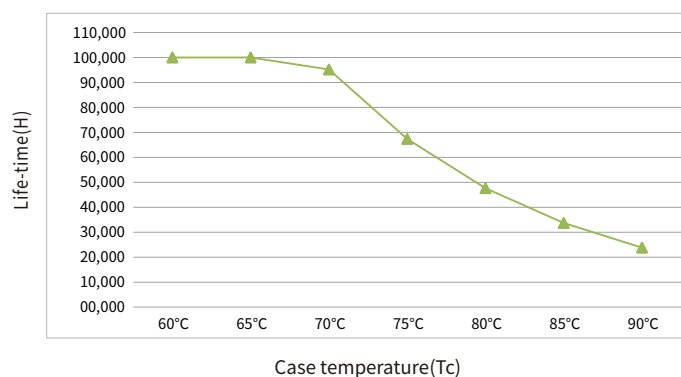
Operating window



- Output voltage x output current = output power
- The minimum current step is 1mA, the minimum voltage step is 1V, the voltage range is 12-54V, the current range is 150-1050mA, and the voltage and current can be set arbitrarily under the premise that the output power does not exceed 40W.

Expected life-time

Life-time vs. case temperature

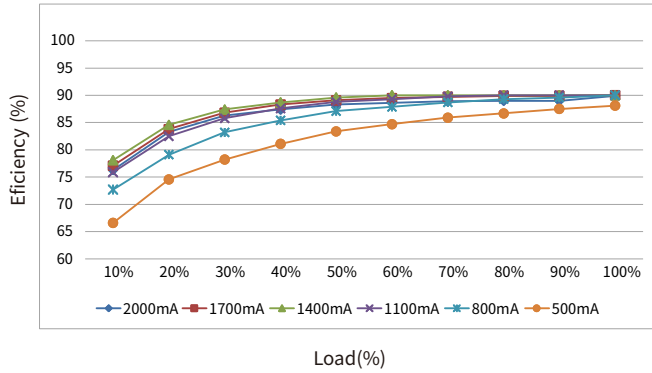


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

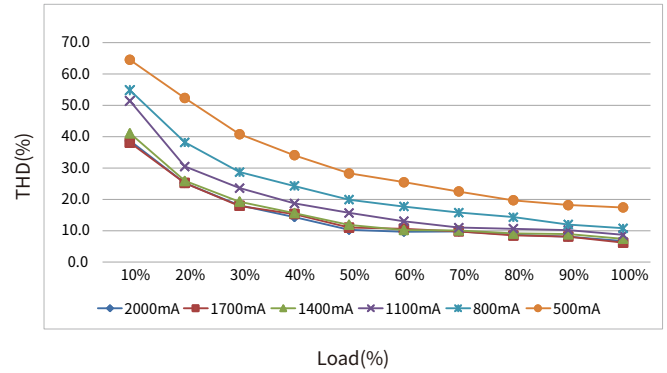
Electrical values

BK-DGL080S-A2000ADN

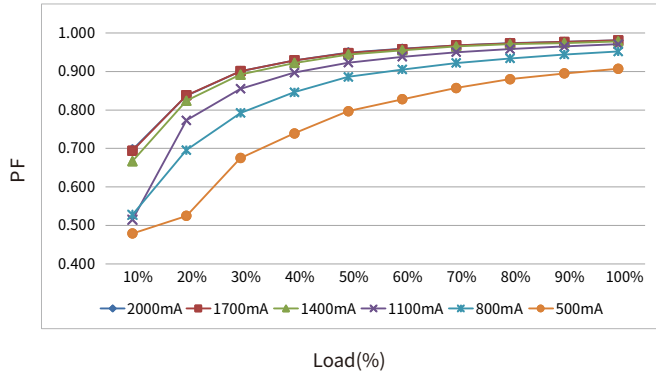
Efficiency vs load



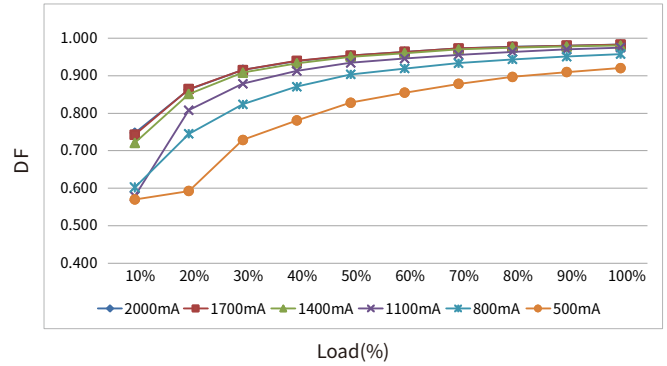
THD vs. Load



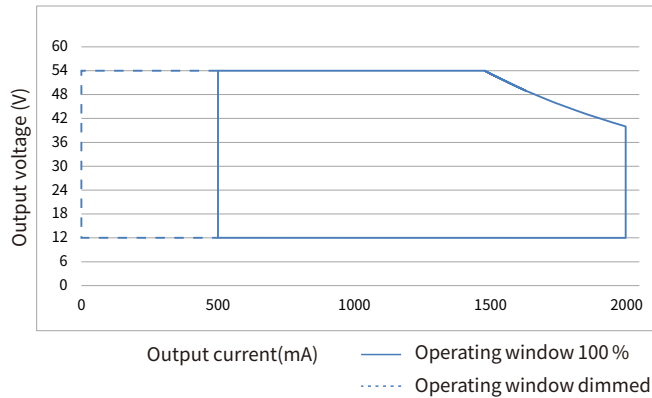
Power factor vs. Load



Displacement factor vs. Load



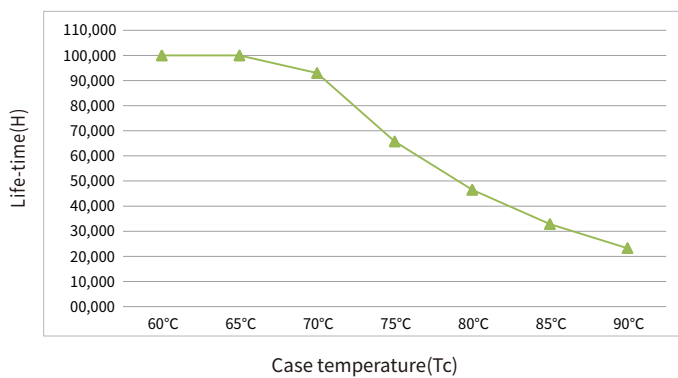
Operating window



- Output voltage x output current = output power
- The minimum current step is 1mA, the minimum voltage step is 1V, the voltage range is 12-54V, the current range is 500-2000mA, and the voltage and current can be set arbitrarily under the premise that the output power does not exceed 80W.

Expected life-time

Life-time vs. case temperature



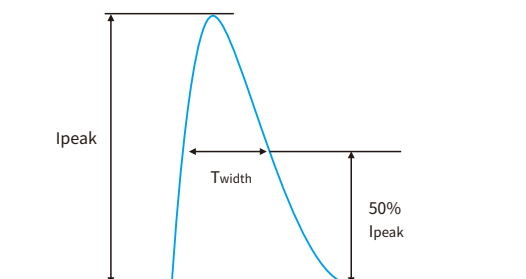
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-DGL040S-A	8.4A	170us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	39	50	62	77	96	39	50	62	77	96	39	50	62	77	96
BK-DGL080S-A	15.5A	198us		20	26	32	40	50	20	26	32	40	50	20	26	32	40	50

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 hot plug-in

In the following two cases, the LED driver will automatically turn off the output to protect the LED:

- When the driver is powered on first and the LED is connected later.
- When the driver is powered on, disconnected and connected again.

The output will be activated again after restart of the LED driver .

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 has 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.

Insulation between circuits

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

Adjustable output current (AOC)

- The output current of the driver can be adjusted within a certain range, 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.

Label

BK-DGL040S-A

INPUT

ACL/DC+

ACN/DC-

NC

NC

NC

DA

DA

pushDIMpushCCT

corridorDIM

DA

DA

wire prep. 0.5-1.5mm²

0.5-1.5mm²

BOKE

Dimmable Tunable White LED Driver(DT8)

MODEL: BK-DGL040S-A1050ADN

INPUT: 200-240V $\overline{\sim}$ 50/60Hz 0.27A Max. λ : 0.45C-0.95

OUTPUT: 12-54V $\overline{\sim}$ 0.15-1.05A 40W Max. 59VDC Max.

For LED Modules use only

www.bokedriver.com

MADE IN CHINA

Output current

ta

tc

$\leq 900\text{mA}$

60°C

85°C

$> 900\text{mA}$

55°C

85°C

BOKE Drivers Co.,Ltd.

Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

OUTPUT

CW+

CW-

WW+

WW-

EL SELV

EasySet area

BK-DGL080S-A

INPUT

ACL/DC+

ACN/DC-

NC

NC

NC

DA

DA

pushDIMpushCCT

corridorDIM

DA

DA

wire prep. 0.5-1.5mm²

0.5-1.5mm²

BOKE

Dimmable Tunable White LED Driver(DT8)

MODEL: BK-DGL080S-A2000ADN

INPUT: 200-240V $\overline{\sim}$ 50/60Hz 0.5A Max. λ : 0.45C-0.95

OUTPUT: 12-54V $\overline{\sim}$ 0.5-2A 80W Max. 60VDC Max.

For LED Modules use only

www.bokedriver.com

MADE IN CHINA

Output current

ta

tc

$<1400\text{mA}$

60°C

90°C

1400-1650mA

55°C

85°C

$>1650\text{mA}$

50°C

80°C

BOKE Drivers Co.,Ltd.

Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

OUTPUT

CW+

CW-

WW+

WW-

EL SELV

EasySet area

Operating temperature & output current

BK-DGL040S-A1050ADP

Output current	ta	tc
$\leq 900\text{mA}$	60°C	85°C
$> 900\text{mA}$	55°C	85°C

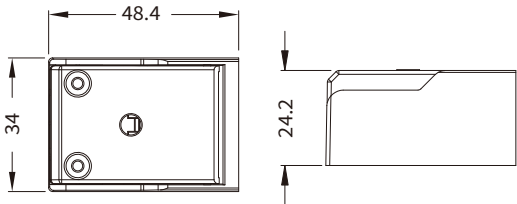
BK-DGL080S-A2000ADP

Output current	ta	tc
$<1400\text{mA}$	60°C	90°C
1400-1650mA	55°C	85°C
$>1650\text{mA}$	50°C	80°C

Optional accessories



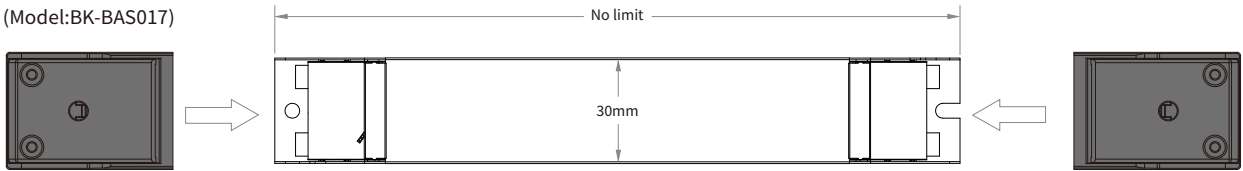
(Model:BK-BAS017)



Unit:mm

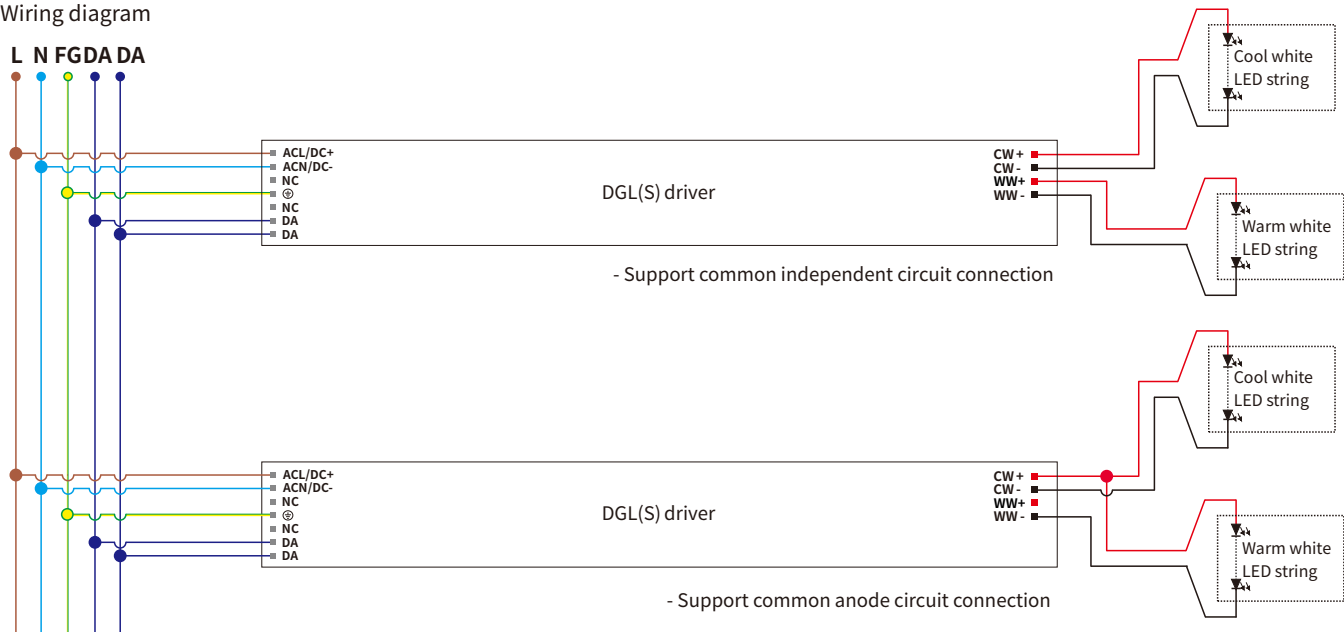
Installation diagram of accessories

(Model:BK-BAS017)



DALI dimming application

Wiring diagram



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

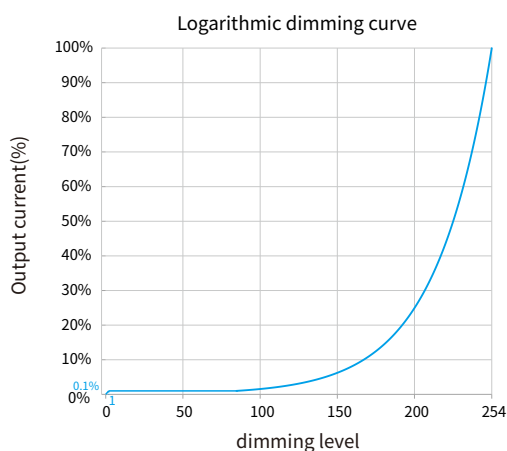
Power-on level :

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.

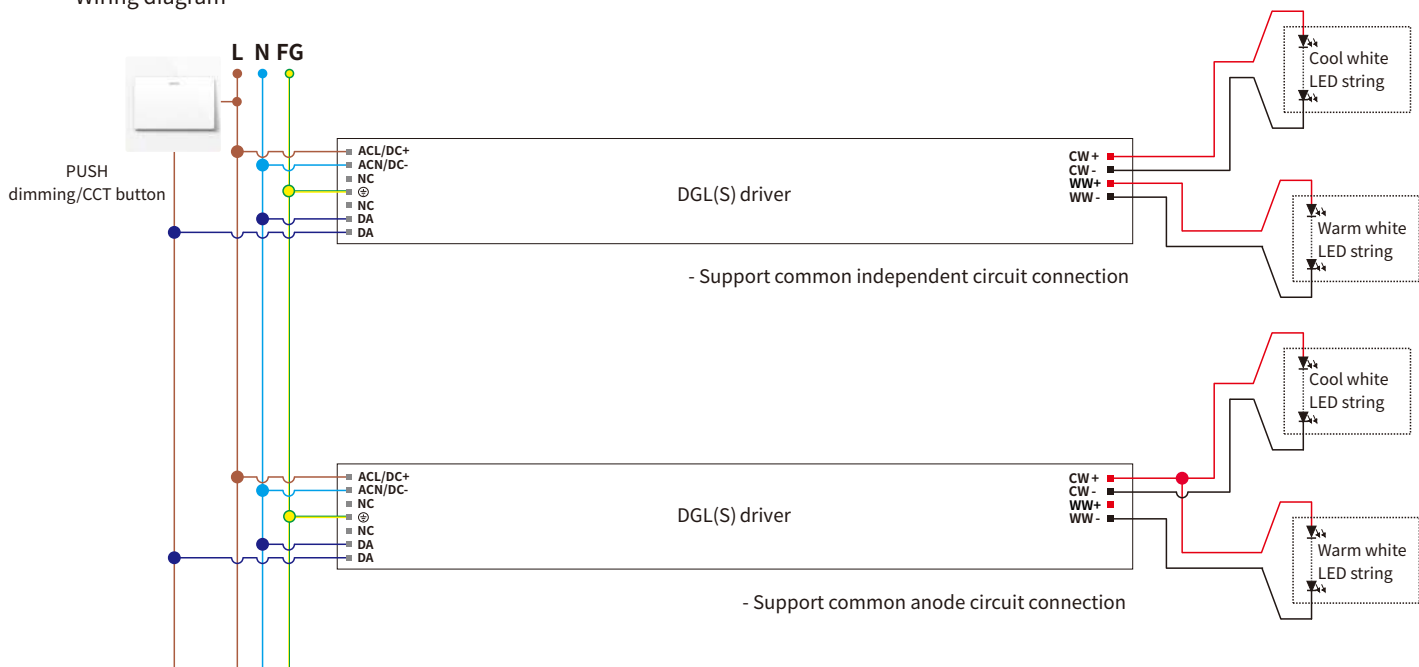
Dimming curve



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

pushDIM dimming and color temperature 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

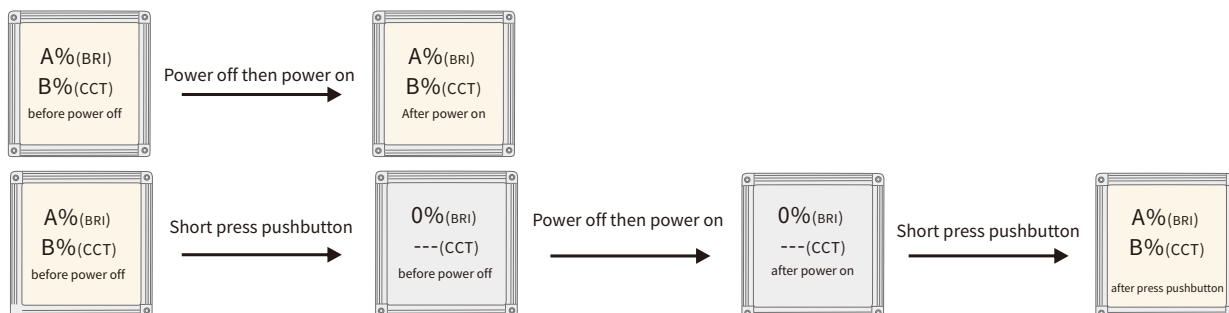
- Turn on or turn off: short press pushbutton for 0.2-1s.
- Stepless dimming : long press pushbutton to adjust the brightness (default dimming time is 6s), Press again to switch dimming directions.

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

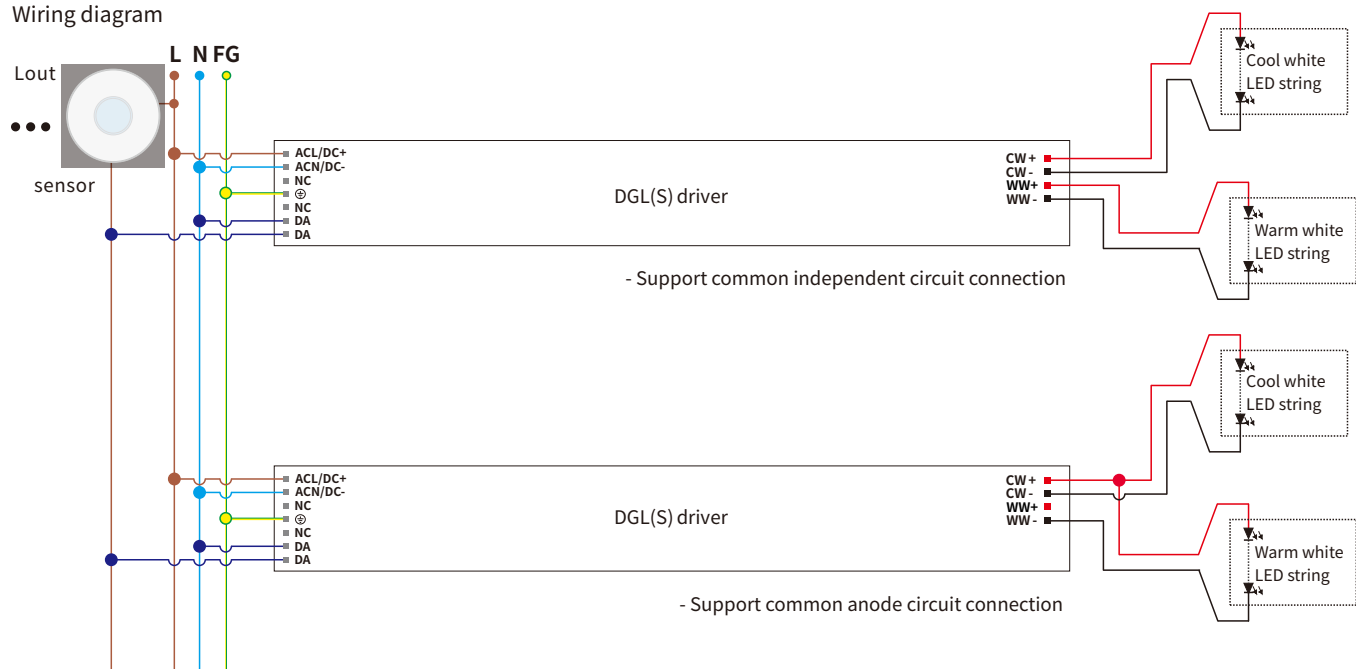
- Step 1:long press the pushbutton,confirm each light is on.
- Step 2:short press the pushbutton,confirm each light is off.
- Step 3:long press the pushbutton,confirm each light is from darkest to brightest and all the lights are synchronous.

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 and color temperature 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 switched.

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

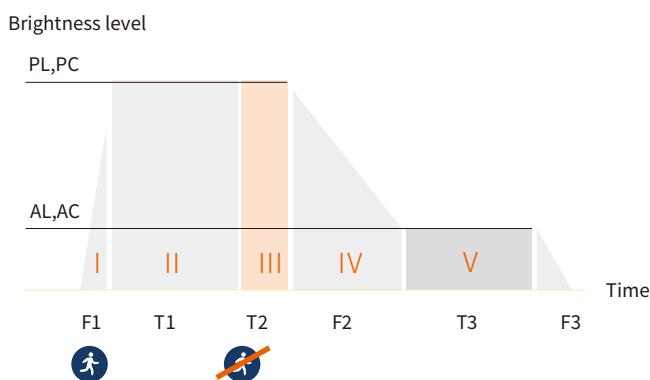
After installation according to the wiring diagram of the corridorDIM dimming and color temperature application, first replace the sensor with a normal switch, and then turn on the normal switch for 5 minutes, and the driver will automatically switch to corridorDIM dimming and color temperature mode,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

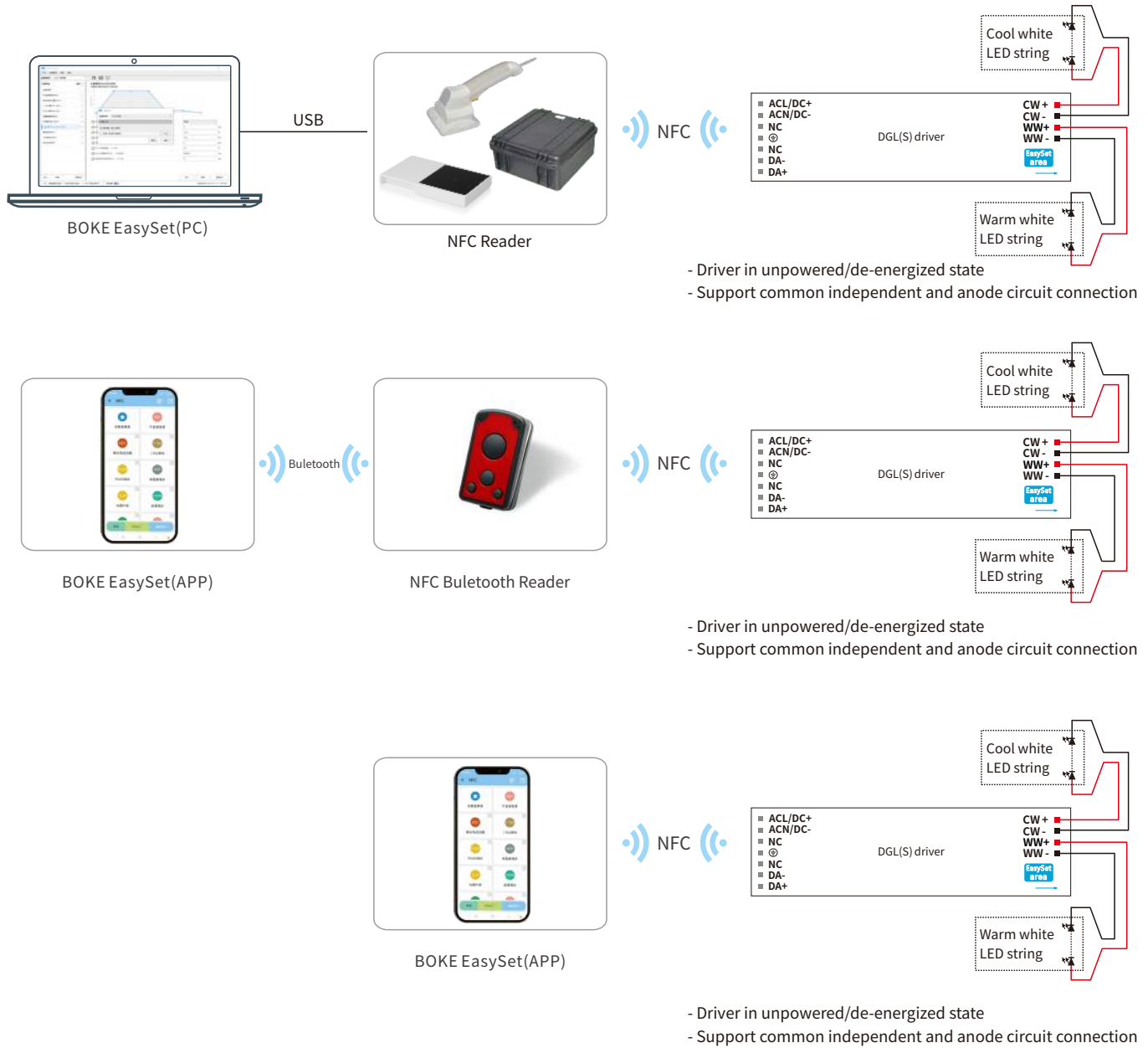


- The parameters of corridorDIM can be set through the configuration tool.
- corridorDIM is activated by default.

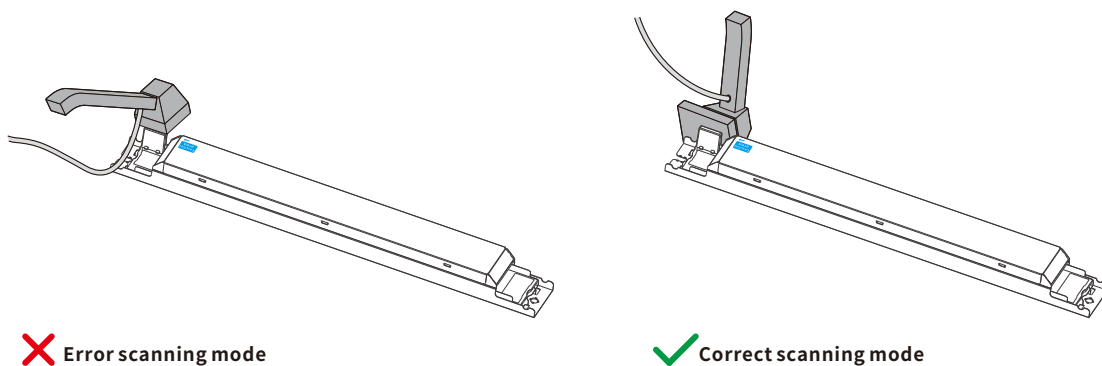
Name	Symbol	Factory setting	Settable range
Fade-in time	F1	1s	0-100s
Presence level	PL	100%	0-100%
Presence CCT	PC	100%(the coldest)	0-100%
Hold-on time	T1	By sensor setting	
Run-on time	T2	180s	0-60000s
Fade-out time	F2	5s	0-100s
Absence level	AL	10%	0-100%
Absence CCT	AC	100%(the coldest)	0-100%
Stand-by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

Device configuration

Optional 1:

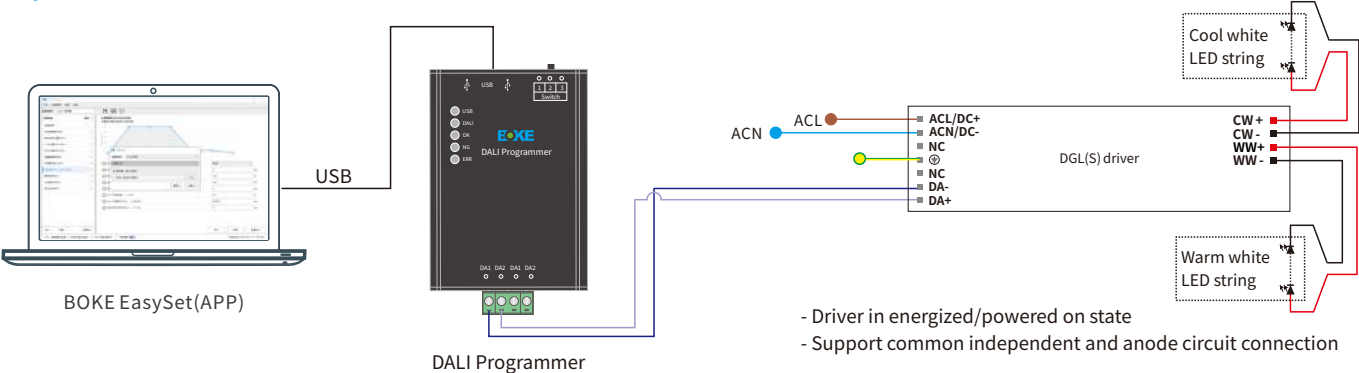


NFC scanning area



Device configuration

Optional 2:



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
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 fadeing(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	

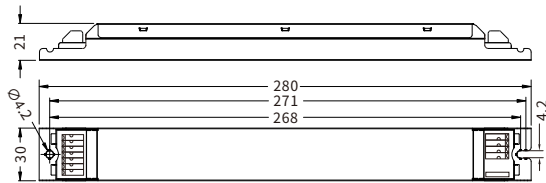
Note: The default factory mode of emergency lighting is derated mode, and the emergency brightness is 15%

Mechanical Specification

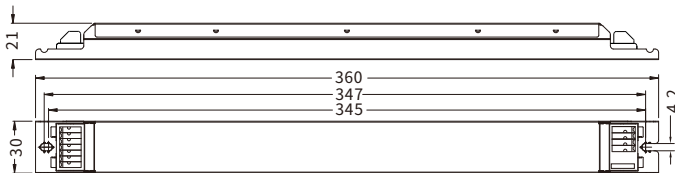
Size(Excluding accessories)

Unit:mm

DGL040S-A



DGL080S-A

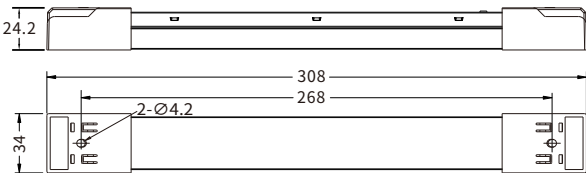


Mechanical Specification

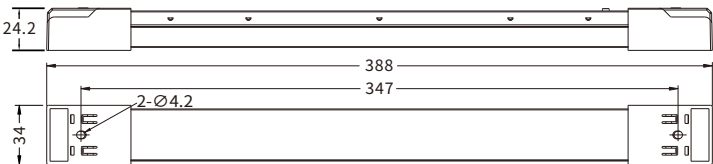
Size(Include accessories)

Unit:mm

DGL040S-A



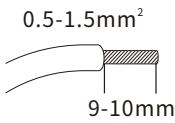
DGL080S-A



INPUT

Numbering	function	colour
1	ACL/DC+	grey
2	ACN/DC-	grey
3	NC	grey
4	FG	grey
5	NC	grey
6	DA/PUSH	grey
7	DA	grey

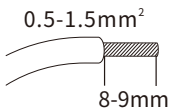
Input wire



OUTPUT

Numbering	function	colour
1	CW+	grey
2	CW-	grey
3	WW+	grey
4	WW-	grey

Output wire



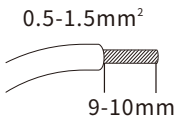
Optional terminal



INPUT

Numbering	function	colour
1	ACL/DC+	grey
2	ACN/DC-	grey
3	NC	grey
4	FG	grey
5	NC	grey
6	DA/PUSH	grey
7	DA	grey

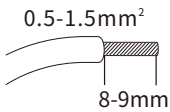
Input wire



OUTPUT

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

Output wire



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 (DALI, pushDIM)

Wiring guidelines

- 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 2 m.
- Incorrect wiring can damage LED modules.

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 luminaire radiator).
- If the driver is used externally (it needs to be used with the accessories), the installation of the driver should also meet the following conditions:
 - 1.The driver should be a certain distance between the drivers, as shown in Figure 1.
 - 2.The driver keeps a certain distance from surrounding objects, as shown in Figure 2.

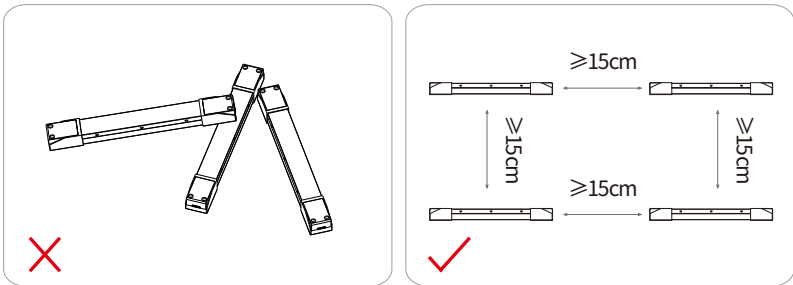


Figure 1

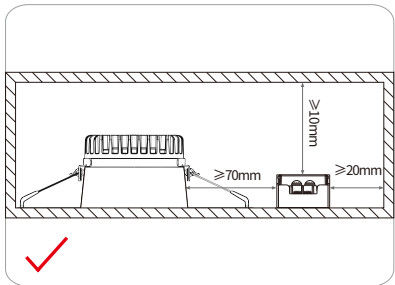


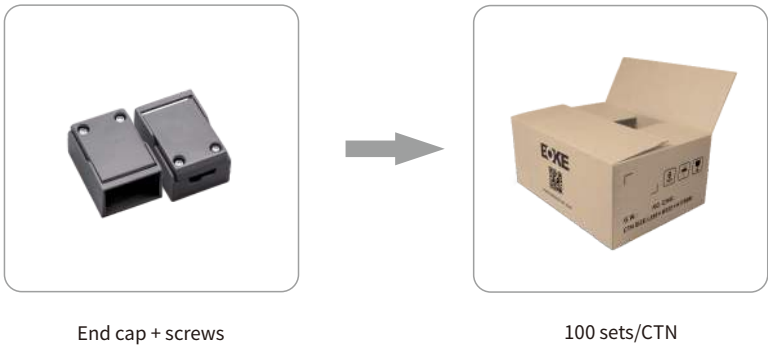
Figure 2

Packaging



Model	Product size	Weight	Paper tray size	Carton size	Qty/carton	N.W	G.W
DGL040S-A	L280*W30*H21mm	198g	L340*W75*H29mm	L355*W325*H170mm	35pcs	6.93kg	9.17kg
DGL080S-A	L360*W30*H21mm	315g	L340*W75*H29mm	L395*W355*H140mm	28pcs	8.82kg	8.13kg

Accessories



Model	Product size	Weight/set	Carton size	Qty/carton	N.W	G.W
BK-BAS017	L48.4*W34*H24.2mm	26g	L450*W350*H180mm	100 sets	2.6kg	3.2kg

Additional information

- When the driver is used as an internal power supply for luminaires, re-evaluation of performance including temperature rise, conducted interference, radiated interference, surge immunity and electrostatic discharge (ESD) are required due to differences in luminaire structure and wiring. Ensure compliance with practical application requirements and stable & reliable operation of the driver.
- Unless otherwise specified, all specifications and parameters are measured under conditions of 230VAC input, 50Hz, full load and ambient temperature of 25°C.
- Product service life and MTBF values are for reference only and do not constitute a warranty statement.
- BOKE reserves the final right to interpret the above parameters. For further information, please send an email to info@bokedriver.com.
- The above information is subject to change without prior notice. Please ensure you use the latest version of the datasheet.