

Constant current independent dimmable driver DEL Series suffix d(DALI-2+pushDIM)



Features

- Support DALI-2+pushDIM dimming mode
- 10-level current output can be realized by DIP-switch
- Soft dimming and flicker-free at any brightness
- Using HPC patented technology, at any dimming level, the brightness of the lights is the same
- Dimming range 1~100%, output current accuracy 2%
- 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
- Independent input and output strain relief, stronger wiring
- Intelligent LED hot-plug protection function
- SELV and Class II design, suitable for use inside of the light
- Passed CE, ENEC, UKCA, RCM, CCC, DALI-2 and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5-year guarantee

Interfaces

- DALI-2(DALI-2 DT6)
- PUSH(pushDIM)

Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features
- (short-circuit, overload, no-load, hot plug-in protection)

Suitable for lights

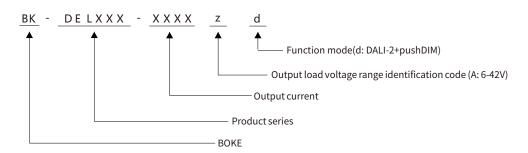
- Suitable for lights with independent drivers such as downlights, spotlights, panel lights, etc
- Not suitable for lights with built-in drivers

Typical applications

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



Model coding rules of DEL series



Function list

		Wired d	limming	Advanced functions		
Model	suffix	DALI-2	pushDIM	EL		
BK-DEL010						
BK-DEL022			~			
BK-DEL028	d	,		-1		
BK-DEL030	a	√	v	V		
BK-DEL042						
BK-DEL060						

* The description in this specification is only applicable to the products with the suffix d and the model are DEL010, DEL022 and DEL028.

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension	Certifications
BK-DEL010-0350Ad	200-240VAC	10W	6-30/36/4042VDC	0.10-0.35A	L117*W45.5*H24mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
BK-DEL022-0600Ad	200-240VAC	22W	6-38/42VDC	0.225-0.60A	L117*W45.5*H29mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
BK-DEL028-0750Ad	200-240VAC	28W	6-38/40/42VDC	0.30-0.75A	L117*W45.5*H29mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
BK-DEL030-0800Ad	200-240VAC	30W	6-38/40/42VDC	0.25-0.80A	L103*W68.5*H30.5mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
BK-DEL042-0800Bd	200-240VAC	42W	6-52/54/60/64/70/76/84VDC	0.25-0.80A	L103*W68.5*H30.5mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
BK-DEL042-1100Ad	200-240VAC	42W	6-38/40/42VDC	0.45-1.10A	L103*W68.5*H30.5mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
BK-DEL060-2000Ad	200-240VAC	60W	6-30/32/34/36/38/40/42VDC	0.80-2.00A	L123.5*W79.5*H31mm	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2

* The description in this specification is only applicable to the products with the suffix d and the model are DEL010, DEL022 and DEL028..



Technical data

Technical data							
Product model	BK-DEL010-0350Ad						
Output parameters							
Regulation method	Constant Current						
Rated output current	0.1-0.35A						
Rated output voltage	6V - 30V/36V/40V/42V						
Rated output power	10.5W Max						
Output current adjustment	DIP S.W(10 levels)						
Output current ripple LF	±2%						
Output current accuracy	±2%						
. ,							
Linear regulation	±1%						
Load regulation	±1%						
No load output voltage	50V						
Flicker-free(typical)	Modulation depth =2.413% (100Hz), Pst LM =0.052, SVM = 0.085, (The above parameters are obtained from testing the panel lights)						
Input parameters							
Rated input voltage	200-240VAC 200-240VDC						
Rated input voltage	180-264VAC 200-264VDC						
Input votage shock	<380 V AC, 1 h						
Input current	<0.07A (AC input)						
Input frequency	0/50/60Hz						
Input power factor	0.95 (230V AC & Full load)						
Input THD	10% (230V AC & Full load)						
Efficiency(typical)	84% (230V AC & Full load)						
In-rush current	4A peak ,160us duration(50 % Ipeak), see the description below for details						
Start/Switchover/Turn off	<0.6s(AC start),<0.6s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)						
Switching cycles	> 50,000 switching cycles						
Power consumption	Full load(Pmax):10.5W, 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						
Leakage current	<0.7mA (230V AC & Full load)						
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(amplitude modulation)						
Emergency support							
Central emergency system	Supported(dimming normal in DC input)						
Self-contained emergency	Supported						
Environment & Life time							
Operating temperature	Ta=-20-60°C						
Case temperature	Tc=90°C						
Operating humidity							
	5-85% RH, not condensed						
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed						
IP grade							
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							
Certified	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2						
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)						
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, full load and 25 $^\circ C$ 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.



Technical data

Technical data							
Product model	BK-DEL022-0600Ad						
Output parameters							
Regulation method	Constant Current						
Rated output current	0.225-0.6A						
Rated output voltage	6V - 38V/42V						
Rated output power	22.8W Max						
Output current adjustment	DIP S.W(10 levels)						
Output current ripple LF	±2%						
Output current accuracy	±2%						
Linear regulation	±1%						
Load regulation	±1%						
No load output voltage	50V						
Flicker-free(typical)	Modulation depth =0.363% (100Hz), Pst LM = 0.006, SVM = 0.010, (The above parameters are obtained from testing the panel lights)						
Input parameters	Modulation depth = 0.505% (100Hz), PSt LM = 0.000, SVM = 0.010, (The above parameters are obtained from testing the panel lights)						
Rated input voltage	200-240VAC 200-240VDC						
Rated input voltage	180-264VAC 200-264VDC						
Input votage shock	<380 V AC, 1 h						
Input current	<0.14A (AC input)						
Input frequency	0/50/60Hz						
Input power factor	0.95 (230V AC & Full load)						
Input THD	10% (230V AC & Full load)						
Efficiency(typical)	86% (230V AC & Full load)						
In-rush current	6.5A peak ,192us duration(50 % Ipeak), see the description below for details						
Start/Switchover/Turn off	<0.6s(AC start),<0.6s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)						
Switching cycles	> 50,000 switching cycles						
Power consumption	Full load (Pmax):22.8W, 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						
Leakage current	<0.7mA (230V AC & Full load)						
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(amplitude modulation)						
Emergency support							
Central emergency system	Supported(dimming normal in DC input)						
Self-contained emergency	Supported						
Environment & Life time							
Operating temperature	Ta=-20-50°C						
Case temperature	Tc=90°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 Environmental protection	<25dB(30cm, Full load)						
	RoHS						
·							
Certifications and standards							
Certifications and standards Certified	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2						
Certifications and standards	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2 EN61347-1, EN61347-2-13, EN62384						
Certifications and standards Certified	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2						
Certifications and standards Certified Safety	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2 EN61347-1, EN61347-2-13, EN62384						
Certifications and standards Certified Safety EMC	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2 EN61347-1, EN61347-2-13, EN62384 EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547						
Certifications and standards Certified Safety EMC DALI-2	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2 EN61347-1, EN61347-2-13, EN62384 EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547 IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)						

Remarks

1.By default, all parameter are measured at 230VAC input, full load and 25 $^\circ C$ 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.



Technical data

Technical data								
Product model	BK-DEL028-0750Ad							
Output parameters								
Regulation method	Constant Current							
Rated output current	0.3-0.75A							
Rated output voltage	6V - 38V/40V/42V							
Rated output power	28.5W Max							
Output current adjustment	DIP S.W(10 levels)							
Output current ripple LF	±2%							
Output current accuracy	±2%							
Linear regulation	±1%							
Load regulation	±1%							
No load output voltage								
Flicker-free(typical)	Modulation depth =0.508% (100Hz), Pst LM = 0.005, SVM = 0.010, (The above parameters are obtained from testing the panel lights)							
Input parameters								
Rated input voltage	200-240VAC 200-240VDC							
Rated input voltage	180-264VAC 200-264VDC							
Input votage shock	<380 V AC, 1 h							
Input current	<0.18A (AC input)							
Input frequency	0/50/60Hz							
Input power factor	0.95 (230V AC & Full load)							
Input THD	10% (230V AC & Full load)							
Efficiency(typical)	86% (230V AC & Full load)							
In-rush current	6.5A peak ,194us duration(50 % Ipeak), see the description below for details							
Start/Switchover/Turn off	<0.6s(AC start),<0.6s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)							
Switching cycles	> 50,000 switching cycles							
Power consumption	Full load (Pmax):28.5W, 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							
Leakage current	<0.7mA (230V AC & Full load)							
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(amplitude modulation)							
Emergency support								
Central emergency system	Supported(dimming normal in DC input)							
Self-contained emergency	Supported							
Environment & Life time								
Operating temperature	Ta=-20-45°C							
Case temperature	Tc=90°C							
Operating humidity	5-85% RH, not condensed							
Storage temp./humidity								
	-40-80°C, 5-85% RH, not condensed							
IP grade	IP20 500 000H MIL HDRK 2175(25°C)							
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								
Certified	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2							
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)							
EL	Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172							
RF	N/A							
Remarks								

Remarks

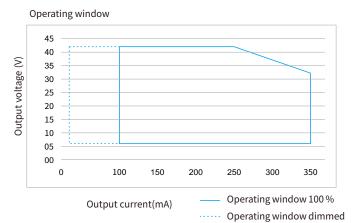
1.By default, all parameter are measured at 230VAC input, full load and 25 $^\circ C$ of ambient temperature.

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.

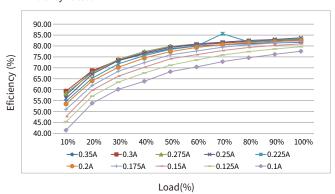


Electrical values

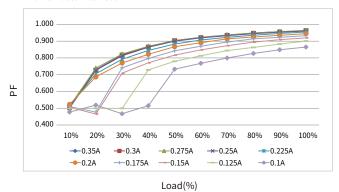
BK-DEL010-0350Ad



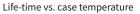


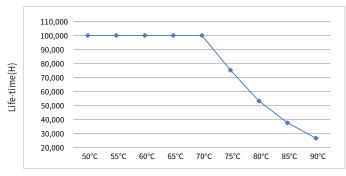


Power factor vs. Load

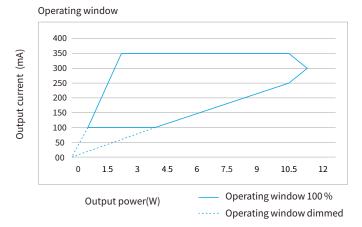


Expected life-time

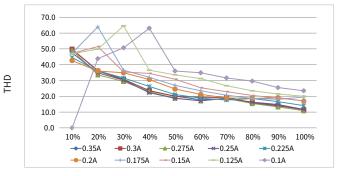




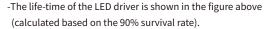
Case temperature(Tc)







Load(%)

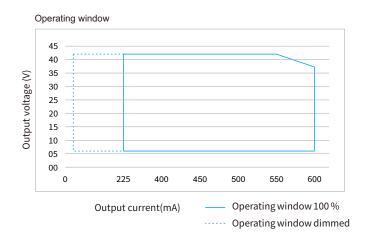


- The relation of tc to ta temperature depends also on the luminaire design.

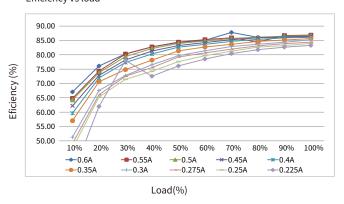


Electrical values

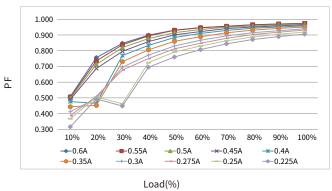
BK-DEL022-0600Ad



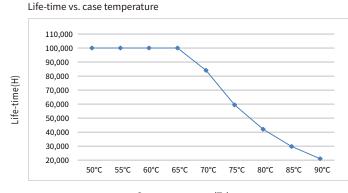
Efficiency vs load



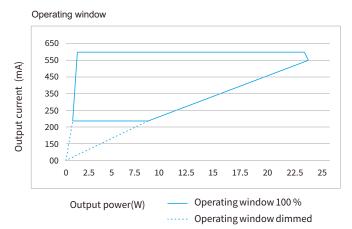
Power factor vs. Load



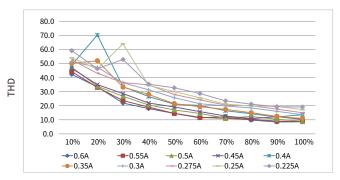




Case temperature(Tc)







Load(%)

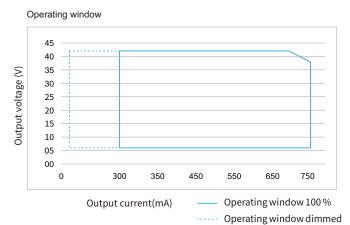
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

- The relation of tc to ta temperature depends also on the luminaire design.

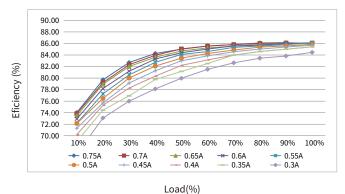


Electrical values

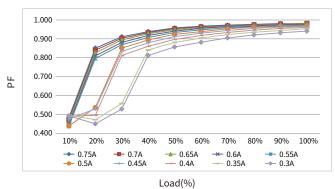
BK-DEL028-0750Ad



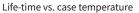
Efficiency vs load

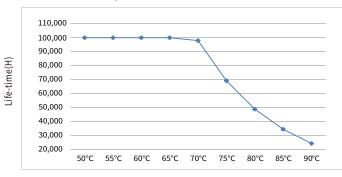


Power factor vs. Load

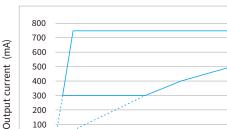


Expected life-time





Case temperature(Tc)

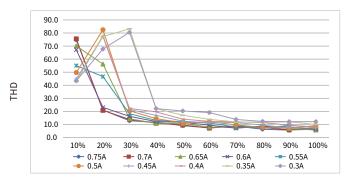


300 200 100 00 0 5 8 11 14 17 20 23 26 29 Operating window 100 % Output power(W)

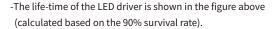
····· Operating window dimmed



Operating window



Load(%)

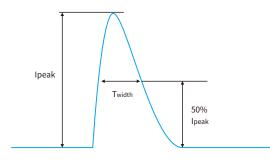


- The relation of tc to ta temperature depends also on the luminaire design.



Surge

		a 1991	Relative number of MCB															
Model	Ipeak	Twidth	Condition	B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-DEL010-0350Ad	4A	160us	AC 230V,Full load, Cold start,Ta≪30°C, MCB is not installed side by side	99pcs	128pcs	158pcs	197pcs	247pcs	125pcs	162pcs	200pcs	250pcs	312pcs	125pcs	162pcs	200pcs	250pcs	312pcs
BK-DEL022-0600Ad	6.5A	192us		65pcs	65pcs	80pcs	100pcs	124pcs	59pcs	77pcs	94pcs	118pcs	147pcs	59pcs	77pcs	94pcs	118pcs	147pcs
BK-DEL028-0750Ad	6.5A	194us		48pcs	62pcs	77pcs	96pcs	120pcs	48pcs	62pcs	77pcs	96pcs	120pcs	48pcs	62pcs	77pcs	96pcs	120pcs



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

- In case of a short-circuit at the LED output ,the LED output is switched off.
- After restart of the LED driver ,the output will be activated again.

Output no-load operation

- The LED driver will not be damaged in no-load operation.
- The output will be deactivated and is therefore free of voltage.
- If a LED load is connected , the device has to be restarted before the output will be activated again.

Output overload protection

- If the output voltage range is exceeded the LED driver turns off the LED output.
- After restart of the LED driver the output will be activated again.

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 connecred again.
- After restart of the LED driver the output will be activated again.

Driver restart method

There are two ways to restart the device:

- Through the AC input portr: 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 PUSH switch two times,then long press PUSH switch.



Label

BK-DEL010-0350Ad

EOXE Dimmable Constant Current LED Driver PELI MODEL:BK-DEL010-0350Ad INPUT: 200-240V ≂ 0/50/60Hz 0.07A Max. A: 0.95 OUTPUT: 6-30V == 350mA 10.5W 50VDC Max. MADE IN CHINA Other ratings see selection sheet For LED Modules use only www.bokedriver.com wire prep. Preparation or tc
ACL/DC+ BACN/DC- TACL/DC+ C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- C:90°C CACL/DC- CACL/



BK-DEL022-0600Ad





BK-DEL028-0750Ad



	5	Switching s	election sh	eet				Do not on orgina the driver hefere
Pin(W)		Output		Switch				Do not energize the driver before
typ.	Prated(w)	Irated(mA)	Voltage(Vdc)	1	2	3	4	connecting the LED.
14.8	12.60	300 🗖	6-42	-	ON	ON	ON	connecting the LED.
17.0	14.70	350	6-42	ON	-	ON	ON	
19.4	16.80	400 🗖	6-42	-	-	ON	ON	
21.6	18.90	450 🗖	6-42	-	ON	-	ON	
24.1	21.00	500	6-42	-	-	-	ON	
26.9	23.10	550	6-42	ON	ON	ON	-	
29.2	25.20	600	6-42	-	-	ON	-	
31.8	27.30	650 🗖	6-42	-	ON	-	-	
32.2	28.00	700	6-40	ON	-	-	-	
33.4	28.50	750	6-38	-	-	-	-	1/
E	lefore us	e,always ch	neck dipswi	tch s	etting	s!		

DIP-switch & output current

BK-DEL010-0350Ad

Pin(W)		Output					
typ.	Prated(w)	Irated(mA)	Voltage(Vdc)	1	2	3	4
6.80	4.20	100	6-42		ON	ON	ON
8.30	5.25	125	6-42	ON		ON	ON
9.80	6.30	150	6-42			ON	ON
11.3	7.35	175	6-42		ON		ON
12.9	8.40	200	6-42				ON
12.9	9.45	225	6-42	ON	ON	ON	
13.2	10.5	250	6-42			ON	
13.3	11.0	275	6-40		ON		
13.1	10.8	300	6-36	ON			
12.8	10.5	350 ★	6-30				

BK-DEL022-0600Ad

Pin(W)		Output				3	
typ.	Prated(w)	Irated(mA)	Voltage(Vdc)	1	1 2		4
11.2	9.45	225	6-42		ON	ON	ON
12.3	10.50	250	6-42	ON		ON	ON
13.5	11.55	275	6-42			ON	ON
14.6	12.60	300	6-42		ON		ON
16.9	14.70	350	6-42				ON
19.3	16.80	400	6-42	ON	ON	ON	
21.6	18.90	450	6-42			ON	
23.9	21.00	500	6-42		ON		
26.6	23.10	550	6-42	ON			
26.4	22.80	600 ★	6-38				

BK-DEL028-0750Ad

Pin(W)		Output			_	_		
typ.	Prated(w)	Irated(mA)	Voltage(Vdc)	1	2	3	4	
14.8	12.60	300	6-42		ON	ON	ON	
17.0	14.70	350	6-42	ON		ON	ON	
19.4	16.80	400	6-42			ON	ON	
21.6	18.90	450	6-42		ON		ON	
24.1	21.00	500	6-42				ON	
26.9	23.10	550	6-42	ON	ON	ON		
29.2	25.20	600	6-42			ON		
31.8	27.30	650	6-42		ON			
32.2	28.00	700	6-40	ON				
33.4	28.50	750 ★	6-38					

Remarks:

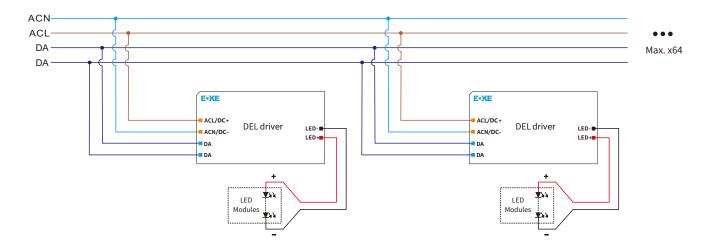
1.★ It means that this item is the factory default current.

2. -- It means that this channel is OFF.



DALI dimming application

Wiring diagram



Activating 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 2×1.5 mm².

- 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.

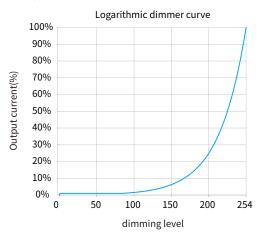
Power-on level :

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.

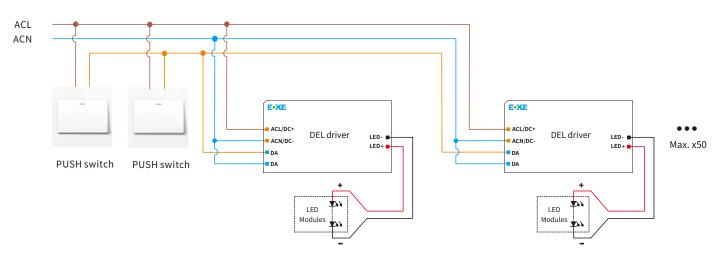
Please refer to the table below

Cable size	Distance					
2×0.50mm ²	max.100m					
2×0.75mm ²	max.150m					
2×1.00mm ²	max.200m					
≥2×1.50mm ²	max.300m					



pushDIM dimming application

Wiring diagram



Activating pushDIM dimming mode

After installation according to the wiring diagram of pushDIIM dimming application, short press the pushbuttom 3 times within 3 seconds, the driver will automatically switch to pushDIIM dimming mode.

Remarks:

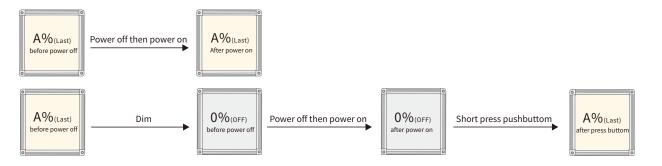
Max. 50 drivers per pushDIM control line.

Turn on or turn off:short press pushbuttom for 0.2-1s.

Dimming: long press pushbuttom for 1-5s.

Power on status: after power on, the light state will be the same as the lighting on state.

If the light is on before power on, the light will be on after power on again, brightness will be the same as the last lighting on brightness. If the light is off before power off, the light will be off after power on again, short press the pushbuttom, then the light will be on, the brightness will be the same as the last brightness.



Multiple lights synchronize control operation

method 1:

Step 1:long press the pushbuttom, confirm each light is on.

Step 2:short press the pushbuttom, confirm each light is off.

Step 3:long press the pushbuttom, confirm each light is from darkest to brightest and all the lights are synchronous.

method 2:

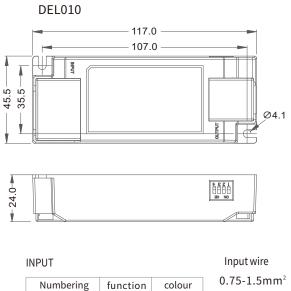
- Long press the pushbuttom 15s, all lights output to the brightest state.

BOKE Drivers Co.,Ltd.

Installation

Mechanical dimensions

Unit:mm



orange

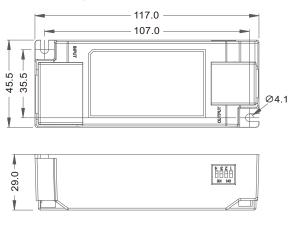
orange

blue

blue

8-9mm

DEL022/DEL028



OUTPUT

Numbering	function	colour	0.5-1.0mm ²
1	LED-	black	
2	LED+	red	8-9mm

Output wire

Installation note

Hot plug-in

- Hot plug-in is not supported due to residual output voltage of > 0 V.

ACL/DC+

ACN/DC-

DA

DA

- 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.

1

3 4

Mounting screw specifications and torque

- Max. torque at the clamping screw: 0.5 Nm / M4

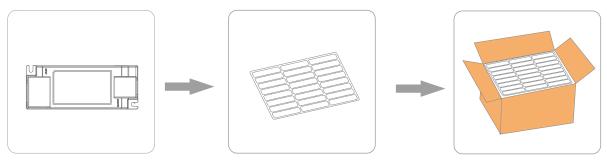
Replace LED module

- 1. Mains off
- 2. Remove LED module
- 3. Wait for 5 seconds
- 4. Connect LED module again



Packaging

Optional 1: factory default



Product

Blister

24pcs×3layer=72pcs/CIN 24pcs×2layer=48pcs/CIN

Model	Product size	Weight	Blister size	Carton size	Qty/carton	N.W	G.W
DEL010	L117*W45.5*H24mm	83g	L430*W340*H47mm	L450*W350*H180mm	72pcs	5.98kg	7.00kg
DEL022	L117*W45.5*H29mm	104g	L430*W340*H47mm	L450*W350*H180mm	72pcs	7.49kg	8.50kg
DEL028	L117*W45.5*H29mm	165g	L430*W340*H47mm	L450*W350*H130mm	48pcs	7.92kg	8.93kg

Optional 2:



Model Product size Packaging size Carton size N.W G.W Weight Qty/carton DEL010 L117*W45.5*H24mm 84g L140*W35*H50mm L345*W310*H170mm 54pcs 4.54kg 6.10kg DEL022 L117*W45.5*H29mm 104g L140*W35*H50mm 7.18kg L345*W310*H170mm 54pcs 5.62kg 165g DEL028 L117*W45.5*H29mm L140*W35*H50mm L345*W310*H170mm 54pcs 8.91kg 10.5kg

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.

The life and MTBF of the product are for reference only, and do not represent a warranty statement. If the drive has been turned on, there is no warranty.
 For more information, please send an email to info@bokedriver.com.