TECHNICAL
INFO

Lighting is still a fast-changing business due to the evolution in led.
On the following pages we inform you on some typical characteristics of led and show you the possibilities on how to connect, switch and dim power supplies in a correct way.
Further in this chapter you can find specific technical information on options, requirements and accessories.

OPTIONS
Depending on the material in which the luminaire will be installed, options can be used for the installation of a luminaire but are not necessary.
REQUIREMENTS
Needed for a proper installation of the luminaire.
ACCESSORIES
To modify the beam of the luminaire.

tech

CF MØLLER

NEW

CTRL DELTA
WIRELESS CONTROL

Delta Light introduces **CTRL DELTA**, enabling you to control and manage a selection of LED luminaires via mobile devices (Apple or Android). In essence, all dimmable luminaires can be wireless controlled, as long as the required components are either integrated or installed externally.
Throughout Lighting Bible 12®, the symbols below show if wireless control is possible with the luminaire in question.

CTRL DELTA IN **CTRL DELTA INSIDE**
Wireless control is standard and the luminaire has the required component integrated.

CTRL DELTA R **CTRL DELTA READY**
Luminaire can be wireless controlled, but requires an external component. In order to ensure the best interaction, this component needs to be installed nearby the luminaire. Installation options need to be checked according to the nature of the luminaire and the installation possibilities.

CTRL DELTA C **CTRL DELTA CUSTOM**
Wireless control for this particular luminaire is on demand and needs to be checked by Delta Light®.

Easy to install. You don't need any new wiring, switches, devices or networks.
Plug in the lighting fixture and pair it with your smartphone or tablet.
No other configurations needed.

Easy to use. You can control your lights with an intuitive and visual user interface on your smartphone or tablet.

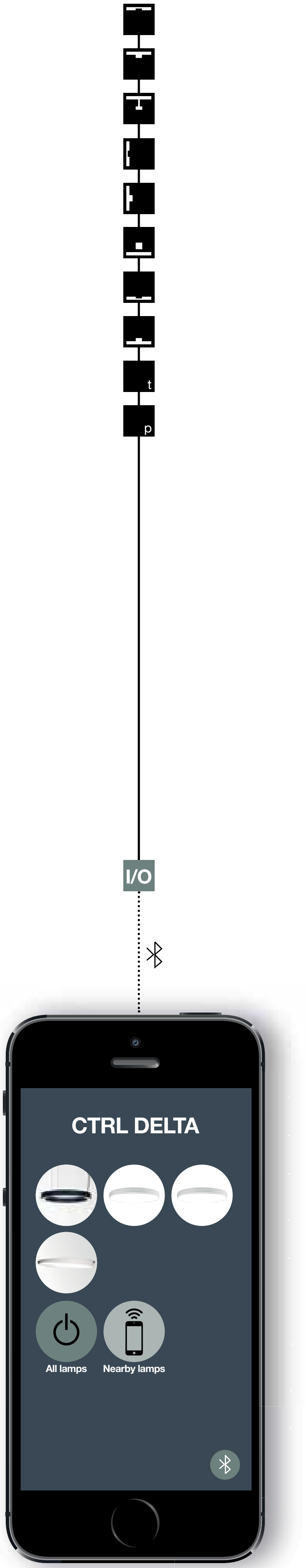
Easy to enjoy. With a tap on your smartphone you can set the ambience.
With the Casambi App you can control your luminaires individual or in groups.

How to in 5 easy steps
1. Order your desired CTRL DELTA unit
   (not standard included with luminaire)
2. Install the CTRL DELTA unit
3. Download the Casambi App in the App or Play Store.
4. Find your CTRL DELTA unit in the Casambi app, using Bluetooth.
5. Take a picture of your room and place the light controls upon the related pictures.
   Now you can visually manage your luminaires directly through the picture.

For more information and technical info please go to
www.deltalight.com/CTRLDELTA

CTRL DELTA IDENTITY KIT

RF TECHNOLOGY	Bluetooth
GATEWAY	NO
MOBILE PLATFORM	Apple, Android
APPLE HOME	COMPATIBLE PENDING
WALL SWITCH	WIRELESS SWITCH PUSH BUTTON INTERFACE
NODES PER NETWORK	128 (IN & OUT)
iBEACON PROXIMITY	YES
AVAILABLE HARDWARE	1-10V DALI FE DIMMING 4 CHANNEL FLEX INTERFACE



tech

CTRL DELTA TRANSMITTER

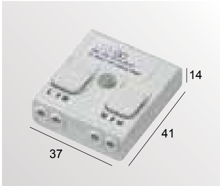
WIRELESS SWITCH
300 90 312 ◇
◇ = B / W
BATTERY POWERED / 5 YEAR LIFETIME
4 FUNCTIONS

CE 0,1 IP20

WIRELESS
PUSH BUTTON INTERFACE
300 90 009
BATTERY POWERED / 5 YEAR LIFETIME
4 FUNCTIONS BY EXTERNAL PUSH BUTTON
TYPE OF FUNCTION SET BY CTRL DELTA

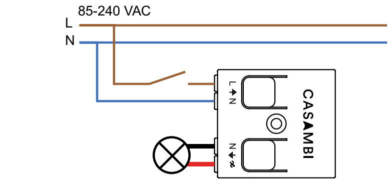
CE 0,1 IP20

CTRL DELTA RECEIVER

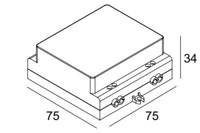


WIRELESS CONTROL DIM8
300 90 004 ED8
220-240V / 0,6A

CE 0,1 IP20

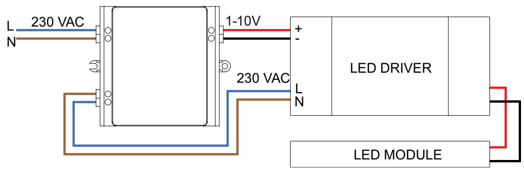


MAINS VOLTAGE E27/GU10 max.150W
LOW VOLTAGE + ELECTRONIC TRANSFO max.50W
LED POWER SUPPLY + LED max.50W



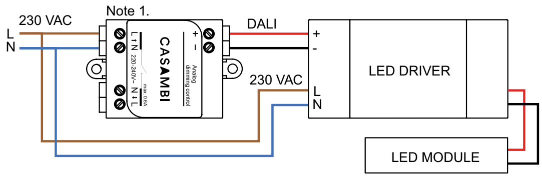
WIRELESS CONTROL 5A DIM1
300 90 016 ED1
220-240V / 5A

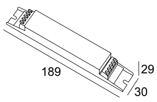
CE 0,1 IP20



WIRELESS CONTROL DIM5
300 90 004 ED5
220-240V / 0,6A

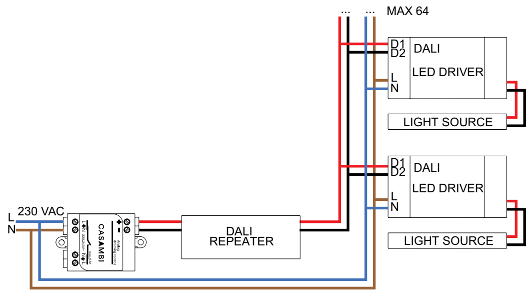
CE 0,1 IP20





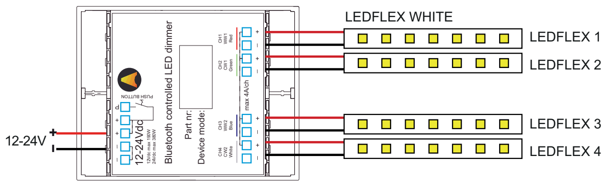
DALI REPEATER
300 90 137
MAX. 64 DALI DEVICES
MAX. DISTANCE 300m

CE 0,1 IP20



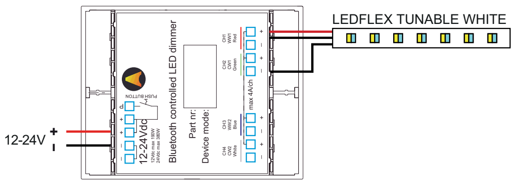
WIRELESS CONTROL
4 CHANNEL WHITE
300 90 005
12/24V-DC / 4 x 4A

CE 0,1 IP20



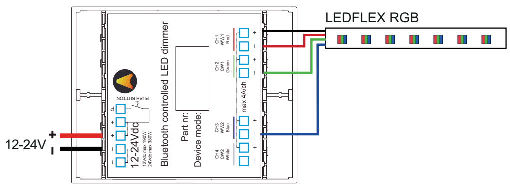
WIRELESS CONTROL
2 CHANNEL TUNABLE WHITE
300 90 006
12/24V-DC / 2 x 4A

CE 0,1 IP20



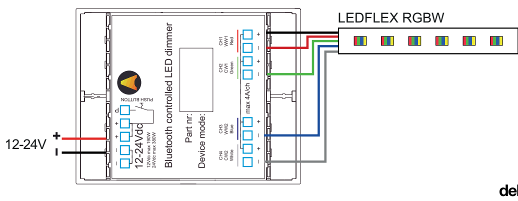
WIRELESS CONTROL RGB
300 90 007
12/24V-DC / 3 x 4A

CE 0,1 IP20

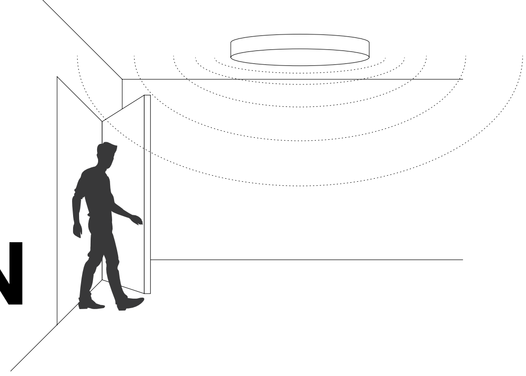


WIRELESS CONTROL RGBW
300 90 008
12/24V-DC / 4 x 4A

CE 0,1 IP20



tech



PRESENCE DETECTION

PRESENCE DETECTION

By adding a presence detection sensor to a luminaire, energy consumption can be reduced while user comfort is raised.
The sensor can switch luminaires on or off, according to the occupation in the room and the specific needs and wishes of the user.
Time between departure and lights off (hold time), plus the detection zone, can be programmed to match the needs of your project.
The presence detection sensor is particular for the Supernova Line range and needs to be installed inside the luminaire, avoiding visible sensors and resulting in clean ceilings and walls.

PRESENCE + DAYLIGHT DETECTION

Together with presence detection, also daylight detection provides energy savings in spaces with a lot of incoming daylight.
The sensor captures the amount of daylight coming into the room and changes the light output of the luminaire according to the specific level of lux that is wanted in the room. In this way, luminaires will provide nearly no light on bright, sunny days and will be at full power on cloudy, grey days.
To be used in the Streamliner profile, this sensor combines both presence and daylight detection, to allow you to reduce energy consumption to a minimum. For proper functioning of the daylight detection, this sensor needs to be visible and comes in an additional profile module. A remote control can be used to change the settings to your preference.

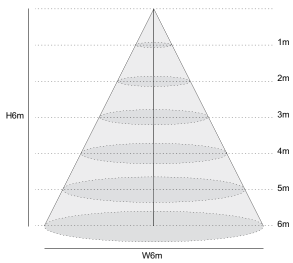
PRESENCE DETECTION HF SENSOR

PRESENCE DETECTION HF SENSOR
300 90 311
EXCL.MOUNTING IN SUPERNOVA LINE
INVISIBLE MOUNTING
MAX. 400W LED POWER
220-240V / 50-60Hz

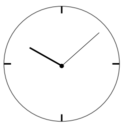
0,1 IP20

3 SETTINGS

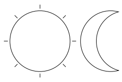
1/ DETECTION PATTERN



2 / HOLD-TIME
5 SECONDS / 30 MIN



3 / DAY-NIGHT



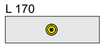
PRESENCE + DAYLIGHT DETECTION HF SENSOR

SRL-AMBIENT LIGHT & MOTION SENSOR DIM2
389 92 00 ED2 ◇
◇ = ANO / B / W
220-240V / 50-60Hz

IP20

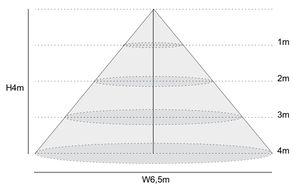
INFRARED PROGRAMMING UNIT
300 90 019

L 170



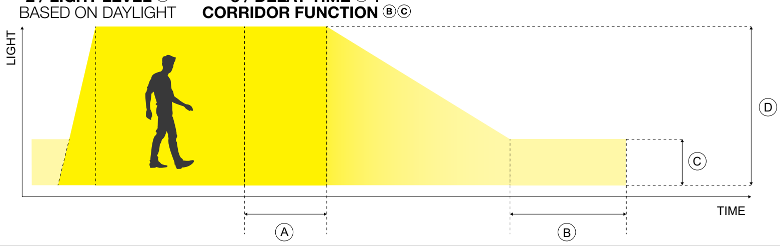
3 SETTINGS (PROGRAMMABLE BY INFRARED PROGRAMMING UNIT)

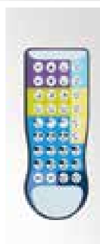
1/ DETECTION PATTERN



2 / LIGHT LEVEL Ⓓ
BASED ON DAYLIGHT

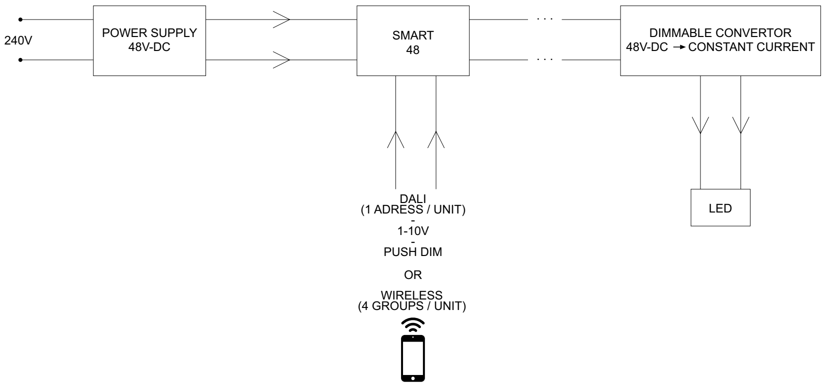
3 / DELAY TIME Ⓐ **+**
CORRIDOR FUNCTION ⒷⒸ





tech

SMART 48

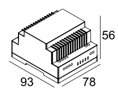


New in Lighting Bible 12 is the possibility to dim 48V luminaires or profiles, thanks to Smart 48. It collects the power from the 48V power supply and combines it with a DALI, 1-10V or Touch Dim input and sends it to the 48V converter in the luminaire. With the Dimmable Modulator 48V-DC DIM9, dimming can be done by only using 2 wires for both power and dimming.
Or dimming can be done wireless, by choosing for the Wireless Dimmable Modulator 48V-DC.

PATENT PENDING

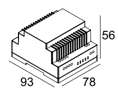
DIMMABLE MODULATOR 48V-DC DIM9

NEW

Type		
DIMMABLE MODULATOR 48V-DC	**48V-DC / DIM9**	
	300 90 011	
	CE 0,1 IP20	
Dimensions (L x W x H)	93 x 78 x 56	
Input	48V-DC	
Output	MODULATED 48V-DC + DIM (MAX.200W)	
DIM	DIM9 (1-10V* / DALI / TOUCH DIM)	*1-10V = 1-100% LIGHT / 0V = OFF

WIRELESS DIMMABLE MODULATOR 48V-DC

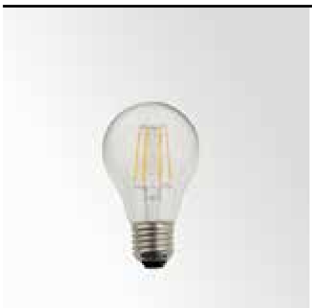
NEW

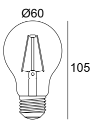
Type	
WIRELESS DIMMABLE MODULATOR 48V-DC	**48V-DC / WIRELESS DIMMING**
	300 90 012
	CE 0,1 IP20
Dimensions (L x W x H)	93 x 78 x 56
Input	48V-DC
Output	MODULATED 48V-DC + DIM (MAX.200W)
DIM	WIRELESS DIMMING

tech

LAMPS

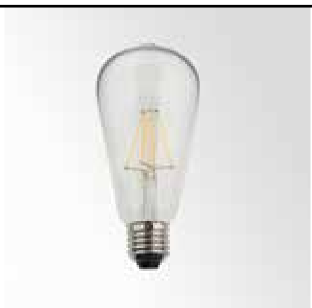
LED SOLUTION / LED FILAMENT

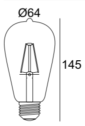




LED FILAMENT 60 E27 6W 2700K
309 109 00 25
IINCL.FILAMENT LED / 2700K / CRI>80
TOTAL POWER 6W / 670lm
EQUIVALENT OF 53W INCANDESCENT
NON DIMMABLE
E27Ls / 220-240V / 50-60Hz

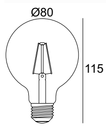
CE 0,1 IP20





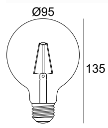
LED FILAMENT T64 E27 8W 2700K
309 109 01 27
IINCL.FILAMENT LED / 2700K / CRI>80
TOTAL POWER 8W / 870lm
EQUIVALENT OF 60W INCANDESCENT
NON DIMMABLE
E27Ls / 220-240V / 50-60Hz

CE 0,1 IP20



LED FILAMENT GL80 E27 8W 2700K
309 109 02 27
IINCL.FILAMENT LED / 2700K / CRI>80
TOTAL POWER 8W / 870lm
EQUIVALENT OF 60W INCANDESCENT
NON DIMMABLE
E27Ls / 220-240V / 50-60Hz

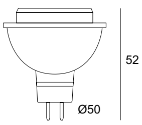
CE 0,1 IP20



LED FILAMENT GL95 E27 8W 2700K
309 109 03 27
IINCL.FILAMENT LED / 2700K / CRI>80
TOTAL POWER 8W / 950lm
EQUIVALENT OF 60W INCANDESCENT
NON DIMMABLE
E27Ls / 220-240V / 50-60Hz

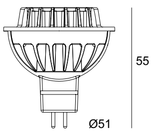
CE 0,1 IP20

LED SOLUTION / HALOLED



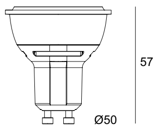
HALOLED 51 - 36° (20W) WW
309 106 38 22
INCL.1 x LED / 3000K
INCL.1 x LENS 36°
TOTAL POWER 4,4W / 230lm
GX5.3 /12V
MAINS DIMMING (FE)

CE 0,1 IP20



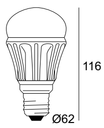
HALOLED 51 - 36° (50W) WW
309 106 38 32
INCL.1 x LED / 3000K
INCL.1 x LENS 36°
TOTAL POWER 8W / 660lm
GX5.3 / 12V
MAINS DIMMING (FE)

CE 0,1 IP20



HALOLED Hi - 40° (35W) WW
309 107 38 32
INCL.1 x LED / 2700K
INCL.1 x LENS 40°
TOTAL POWER 5,4W / 402lm
GU10 / 220-240V / 50-60Hz
MAINS DIMMING (FE)

CE 0,1 IP20

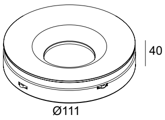


HALOLED E27 - 360° (60W) WW
309 108 00 02
INCL.1 x LED WHITE / 2700K
TOTAL POWER 12W / 810lm
E27 / 220-240V / 50-60Hz

CE 0,1 IP20

tech

LED SOLUTION / QR111



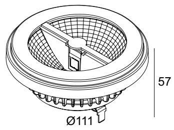
CRI > 90	REO 111
3000 K	LED [H] 7,1W / 774lm / 350mA
REFL FL 33°	**309 111 811 932 ◇** ◇ = A / B / W
REFL WFL 50°	**309 111 811 933 ◇** ◇ = A / B / W
2700 K	LED [H] 7,1W / 743lm / 350mA
REFL FL 33°	**309 111 811 922 ◇** ◇ = A / B / W
REFL WFL 50°	**309 111 811 923 ◇** ◇ = A / B / W

INCL.2 x WIRE 1 x 0.50mm² 0.5m
THEATSINK MAX < 65°C*

CE 0,2 IP20

OPTIONS
LED POWERSUPPLY 350mA-DC

* provide appropriate ventilation to limit THEATSINK temperature



CRI > 90	HALOLED 111
2800 K	LED 15W / 850lm
REFL FL 24°	**309 155 24 12**
REFL WFL 45°	**309 155 45 12**

G53 / 12V / NON DIMMABLE

CE 0,2

MAX.2 LAMPS ON LED TRANSFO 12V-70W
300 89 12 71

tech

LED

CRI>90

LEDFLEX 5M

LEDFLEX IN 940 5m
300 92 52 94
70 x SMD LED/m - 4000K

LEDFLEX IN 930 5m
300 92 52 93
70 x SMD LED/m - 3000K

LEDFLEX IN 927 5m
300 92 52 92
70 x SMD LED/m - 2700K

L : 5m / DIVIDABLE PER 100mm
5,1W/m* - 650lm/m
24V-DC
INCL.20 MOUNTING BRACKETS
EXCL.LED POWER SUPPLY 24V-DC

CE 0,2 IP20

OPTIONS
LEDFLEX IN CONNECTION SET
LEDFLEX IN SUPPLY CABLE SET
LEDFLEX IN CONNECTION CLIP SET

LEDFLEX OUT 940 5m
300 92 62 94
70 x SMD LED/m - 4000K

LEDFLEX OUT 930 5m
300 92 62 93
70 x SMD LED/m - 3000K

LEDFLEX OUT 927 5m
300 92 62 92
70 x SMD LED/m - 2700K

L : 5m / DIVIDABLE PER 100mm
5,1W/m* - 650lm/m
24V-DC
INCL.20 MOUNTING BRACKETS
INCL.8 ENDCAPS
EXCL.LED POWER SUPPLY 24V-DC

CE 0,3 IP65

LEDFLEX FP 5M

LEDFLEX IN FP 940 5m
300 92 53 94
70 x SMD LED/m - 4000K

LEDFLEX IN FP 930 5m
300 92 53 93
70 x SMD LED/m - 3000K

LEDFLEX IN FP 927 5m
300 92 53 92
70 x SMD LED/m - 2700K

L : 5m / DIVIDABLE PER 100mm
15,1W/m* - 1400lm/m
24V-DC
INCL.20 MOUNTING BRACKETS
EXCL.LED POWER SUPPLY 24V-DC

CE 0,2 IP20

OPTIONS
LEDFLEX IN CONNECTION SET
LEDFLEX IN SUPPLY CABLE SET
LEDFLEX IN CONNECTION CLIP SET

LEDFLEX OUT FP 940 5m
300 92 63 94
70 x SMD LED/m - 4000K

LEDFLEX OUT FP 930 5m
300 92 63 93
70 x SMD LED/m - 3000K

LEDFLEX OUT FP 927 5m
300 92 63 92
70 x SMD LED/m - 2700K

L : 5m / DIVIDABLE PER 100mm
15,1W/m* - 1400lm/m
24V-DC
INCL.20 MOUNTING BRACKETS
INCL.8 ENDCAPS
EXCL.LED POWER SUPPLY 24V-DC

CE 0,3 IP65

LEDFLEX HP 5M

LEDFLEX IN HP 940 5m
300 92 54 94
140 x SMD LED/m - 4000K

LEDFLEX IN HP 930 5m
300 92 54 93
140 x SMD LED/m - 3000K

LEDFLEX IN HP 927 5m
300 92 54 92
140 x SMD LED/m - 2700K

L : 5m / DIVIDABLE PER 50mm
21,6W/m* - 2100lm/m
24V-DC
INCL.20 MOUNTING BRACKETS
EXCL.LED POWER SUPPLY 24V-DC

CE 0,2 IP20

LEDFLEX TW 5M

LEDFLEX IN TW 2740 5m
300 92 55 2740
180 x DUAL DICE IN ONE SMD LED/m
L : 5m / DIVIDABLE PER 33,3mm
2700K - 4000K / 14,4W/m* / 1350lm/m
COMMON PLUS
24V-DC
INCL.20 MOUNTING BRACKETS
EXCL.LED POWER SUPPLY 24V-DC

CE 0,2 IP20

* +/- 5%

tech

LEDFLEX RGB 5M

LEDFLEX IN RGB 5m
300 92 52 33
30 x SMD LED/m - RGB
L : 5m / DIVIDABLE PER 167mm
8W/m*
24V-DC
INCL.20 MOUNTING BRACKETS
EXCL.LED POWER SUPPLY 24V-DC
CE 0,2 IP20

OPTIONS
LEDFLEX IN RGB CONNECTION SET
LEDFLEX IN RGB SUPPLY CABLE SET
LEDFLEX IN RGB CONNECTION CLIP SET

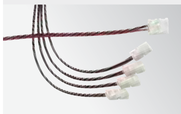
LEDFLEX OUT RGB 5m
300 92 62 33
30 x SMD LED/m - RGB
L : 5m / DIVIDABLE PER 167mm
8W/m*
24V-DC
INCL.20 MOUNTING BRACKETS
INCL.8 ENDCAPS
EXCL.LED POWER SUPPLY 24V-DC
CE 0,3 IP65

LEDFLEX RGBW 5M

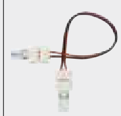
LEDFLEX IN RGBW 5m
300 92 523 83
60 x SMD LED/m - RGB - 3000K
L : 5m / DIVIDABLE PER 100mm
16,8W/m*
24V-DC
INCL.20 MOUNTING BRACKETS
EXCL.LED POWER SUPPLY 24V-DC
CE 0,2 IP20

OPTIONS LEDFLEX

LEDFLEX IN / FP

LEDFLEX IN SUPPLY CABLE SET
300 92 93 07
2 x 0.35mm^2 / 150mm
SET OF 10 pcs
CE 0,1

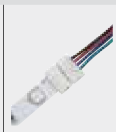
 

LEDFLEX IN CONNECTION SET
300 92 93 08
2 x 0.35mm^2 / 150mm
SET OF 10 pcs
CE 0,1

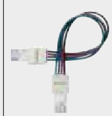
 

LEDFLEX IN CONNECTION CLIP SET
300 92 93 09
SET OF 10 pcs
CE 0,1

LEDFLEX IN RGB

LEDFLEX IN RGB SUPPLY CABLE SET
300 92 93 04
4 x 0.35mm^2 / 150mm
SET OF 10 pcs
CE 0,1

LEDFLEX IN RGB CONNECTION SET
300 92 93 05
4 x 0.35mm^2 / 150mm
SET OF 10 pcs
CE 0,1

LEDFLEX IN RGB CONNECTION CLIP SET
300 92 93 06
SET OF 10 pcs
CE 0,1

tech

LED

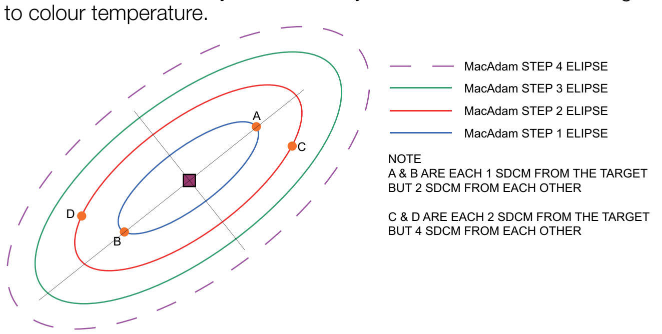
At Delta Light®, we follow the evolution in LED at close range. What appears to be similar quality at first sight, can be totally different when looking at some of the underlying characteristics. These characteristics, like binning, risk factor, thermal management, degradation in luminous flux are part of the DNA of the Light Emitting Diode. These aspects determine the lifespan and the quality of the LED. For this matter, Delta Light® assures it only selects qualitative LEDs from qualitative manufacturers. High quality design cannot be made without high quality components.

COLOUR BINNING TYPICAL VALUES ON PAG TEC 14-15

No 2 LEDs are the same. When LEDs are produced, they vary in light output and in colour temperature, even when they are produced in the same batch. These differences may be small, but they do influence the quality of the LED. That is why manufacturers sort the LEDs, according to these performances, in different 'bins'. By reducing the number of bins to choose from, quality increases as performances are closer to each other.

MACADAM STEP TYPICAL VALUES ON PAG TEC 14-15

The differences in colour temperature between LEDs can be measured by looking at the MacAdam ellipses in Standard Deviation of Colour Matching (SDCM), according to the CIE 1931 Standard. This system looks at the ability of the human eye to perceive colour differences and ranks it on a scale from 0 to 10. Within 1 MacAdam ellipse a colour difference is not noticeable to the human eye under any condition. From 1 to 3 ellipses it is very difficult for the human eye to notice any difference in colour, meaning that up to 3 MacAdam ellipses all LEDs are very homogeneous when it comes to colour temperature.



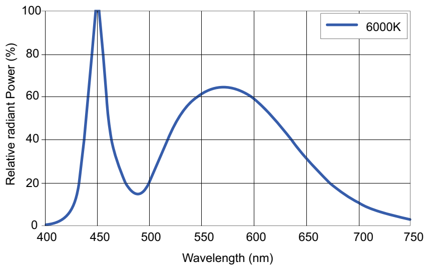
RISK FACTOR TYPICAL VALUES ON PAG TEC 14-15

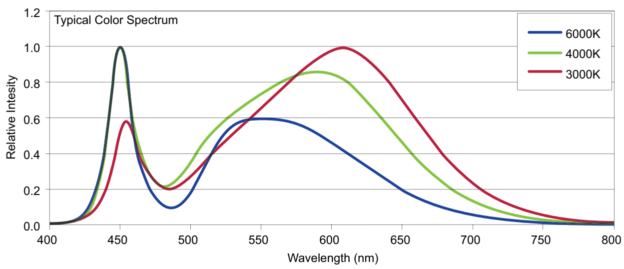
The European standard for photo biological safety EN 62471 describes a measuring method to determine whether a lamp or luminaire carries a risk of eye and skin damage. LED light contains almost no light from the ultraviolet or infrared spectrum, and therefore is not dangerous to the skin.
It does however provide a high peak in the blue spectrum which, when looking into a bright light source (for a long period of time), may result in irreversible damage to the retina, the so-called the Blue Light Hazard.

Whether the risk is real, depends on several factors: luminance of the LED, colour temperature, but also light distribution and distance to the luminaire play an important role. When a LED is placed in a luminaire, it is located behind a lens, reflector or diffuser, thus levelling off the luminance.

To allow users to estimate the risk, the standard EN 62471 determines that lamps and luminaries must be divided into four risk groups:
- Risk group 0 ("exempt" group): this means that there is no danger, even with unlimited viewing of the light source.
- Risk group 1: The risk is limited, no more than 10.000 seconds of viewing is allowed (just under 3 hours).
- Risk group 2: up to 100 seconds of viewing is allowed.
- Risk group 3: up to 0.25 seconds of viewing is allowed. This is shorter than the natural aversion reflex of the eye.

For light sources of risk group 3, protective measures are always needed. For the other groups, it depends on the application. If the light sources belong in group 2 or 3, then this must be indicated.

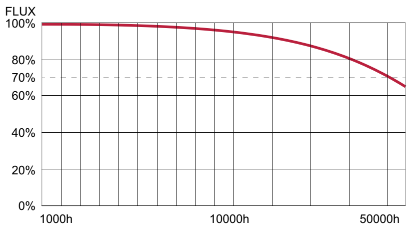




LED LIFESPAN LM-80 – TM-21 TYPICAL VALUES ON PAG TEC 14-15

Conventional light sources mostly burn out before a serious loss of light output is noticeable. As the lifetime of LEDs exceeds the lifetime of conventional light sources, light output degrades over time before burning out. This degradation in luminous flux can be measured according to the L value and the operating period of time:
- L value shows the percentage of luminous flux regarding the initial luminous flux over a period of time.
- The operating period of time, expressed in hours.

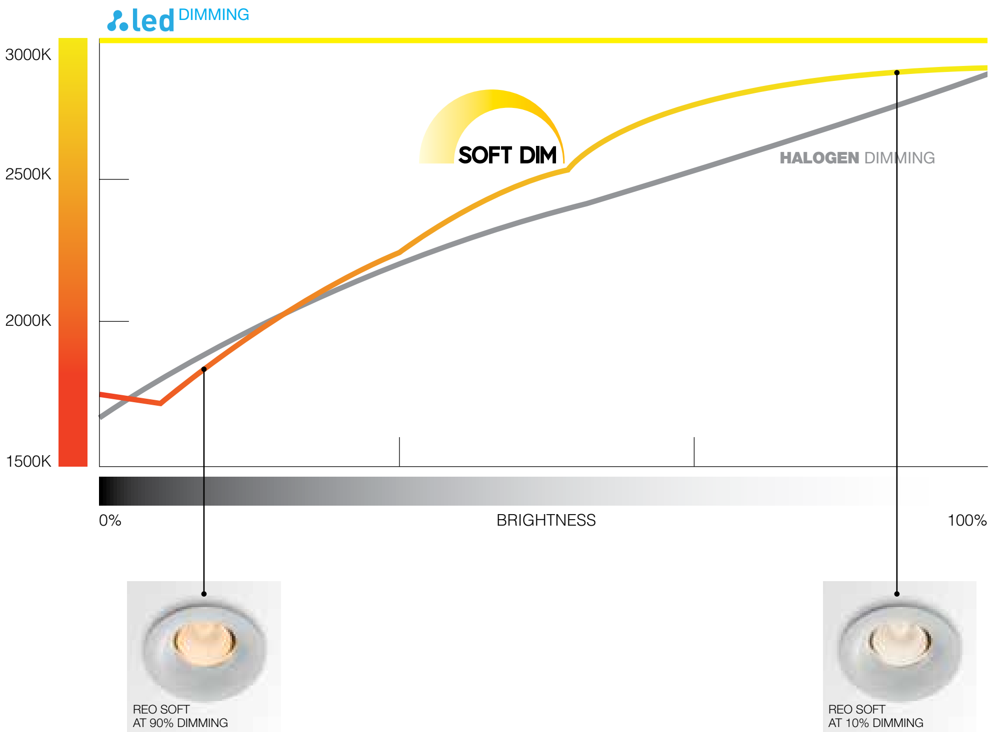
Example: L_{70} 60.000h means that after 60.000 hours the luminous flux will be at least 70% of the original luminous flux.



tech

SOFT DIM

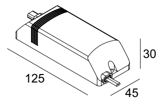
DIMMING CURVE



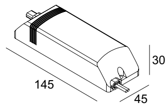

REO SOFT

2700-1800K
CRI > 80 / 850lm (10W)
REFLECTOR 40°

LED POWER SUPPLY 650mA DIM8

Type	
LED POWER SUPPLY 650mA DIM8	
	300 90 915 ED8
	□ CE 0,1 IP20
Dimensions (L x W x H)	125 x 45 x 35
Input	220-240V / 50-60Hz
Output	650mA / 10W / 12-16V-DC
λ	
DIM	Falling Edge Dimming

LED POWER SUPPLY 650mA DIM5

Type	
LED POWER SUPPLY 650mA DIM5	
	300 90 915 ED5
	□ CE 0,1 IP20
Dimensions (L x W x H)	145 x 45 x 35
Input	220-240V / 50-60Hz
Output	650mA / 10W / 12-16V-DC
λ	
DIM	DALI Dimming

tech

LED
SPECIFICATIONS

CRI 80

				2700K	3000K	4000K	TYPICAL VALUES		LIFETIME[1]		RISK GROUP[1]	SDCM[1]	EMERGENCY[2]
CRI	LED		POWER	LUMINOUS FLUX @ 70°	LUMINOUS FLUX @ 70°	LUMINOUS FLUX @ 70°	FORW. CUR.	FORW. VOLT.	LXX	HOURS			BLF %
CRI > 80													
		[A]	1,1W	115lm - 117lm/W	120lm - 122lm/W	130lm - 133lm/W	350mA	3,1V*	L_{90}	>36000h	-	3	-
			1,6W	160lm - 113lm/W	168lm - 117lm/W	181lm - 127lm/W	500mA	3,2V*					-
			2,3W	214lm - 105lm/W	223lm - 110lm/W	242lm - 119lm/W	700mA	3,3V*					-
		[B]	3,3W	294lm - 90lm/W	307lm - 94lm/W	ON REQUEST	1050mA	3,1V*	L_{90}	>60500h	-	3	-
		[C]	4,1W	425lm - 103lm/W	425lm - 103lm/W	ON REQUEST	350mA	11,6V*	L_{90}	>45500h	-	2	100 %
			6W	558lm - 94lm/W	558lm - 94lm/W	ON REQUEST	500mA	11,9V*					72 %
		[D]	6,4W	647lm - 101lm/W	647lm - 101lm/W	ON REQUEST	350mA	18,3V*	L_{90} L_{80}	>30000h >60500h	RG1	2	100 %
			9,5W	842lm - 89lm/W	842lm - 89lm/W	ON REQUEST	500mA	19,1V*					71 %
		[E]	6W	570lm - 98lm/W	570lm - 98lm/W	ON REQUEST	500mA	12,1V*	L_{90} L_{80}	>37300h >51400h	RG2 TRESHOLD 0,6m	2	75 %
			8,7W	723lm - 87lm/W	723lm - 87lm/W	ON REQUEST	700mA	12,4V*					54 %
		[F]	-										
		[G]	-										
		[H]	6W	774lm - 136lm/W	803lm - 142lm/W	838lm - 148lm/W	300mA	20V*	L_{70}	>50000h	RG1	2	100 %
			7,1W	895lm - 134lm/W	928lm - 139lm/W	969lm - 145lm/W	350mA	20,2V*					97 %
			10,4W	1243lm - 127lm/W	1290lm - 132lm/W	1347lm - 137lm/W	500mA	20,7V*					68 %
			15W	1673lm - 118lm/W	1735lm - 122lm/W	1811lm - 127lm/W	700mA	21,4V*					48 %
		[I]	-										
		[J]	16,8W	2308lm - 141lm/W	2404lm - 147lm/W	2500lm - 153lm/W	500mA	33,7V*	L_{70}	>50000h	RG1	2	36 %
			20,5W	2753lm - 138lm/W	2868lm - 144lm/W	2983lm - 150lm/W	600mA	34,2V*					30 %
			24,3W	3183lm - 135lm/W	3316lm - 141lm/W	3448lm - 146lm/W	700mA	34,7V*					25 %
			30W	3788lm - 130lm/W	3946lm - 136lm/W	4103lm - 141lm/W	850mA	35,3V*					20 %
			37,9W	4603lm - 125lm/W	4796lm - 130lm/W	4986lm - 136lm/W	1050mA	36,1V*					16 %
			43,9W	5188lm - 122lm/W	5405lm - 127lm/W	5620lm - 132lm/W	1200mA	36,6V*					14 %
		[K]	-										
		[L]	-										

* +/- 8%
[1] INFO PAG TEC 12
[2] INFO PAG TEC 23

All the technical parameters for LED-apply to the entire module. In view of the complex manufacturing process for light emitting diodes (LED), the typical values given in this **Lighting Bible® 12** are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values. For most accurate info, please consult: **www.deltalight.com/ledspecs.pdf**

All lumen values in this catalogue are related to the Led units. For more info on the lumen values of the products please visit our website **www.deltalight.com**

CRI 90 / 95

				2700K [3]	3000K	4000K	TYPICAL VALUES		LIFETIME[1]				EMERGENCY[2]
CRI	**LED**		**POWER**	**LUMINOUS FLUX @ 70°**	**LUMINOUS FLUX @ 70°**	**LUMINOUS FLUX @ 70°**	**FORW. CUR.**	**FORW. VOLT.**	**L_{xx}**	**HOURS**	**RISK GROUP[1]**	**SDCM[1]**	**BLF %**
CRI > 90 [2]													
		[A]	**1,1W**	NOT AVAILABLE									
			1,6W	NOT AVAILABLE									
			2,3W	NOT AVAILABLE									
		[B]	**3,3W**	ON REQUEST	ON REQUEST	NOT AVAILABLE	1050mA	3,1V*			-	3	-
		[C]	**4,1W**	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	350mA	11,6V*	L_{90}	>45500h	-	2	100 %
			6W	ON REQUEST	ON REQUEST	NOT AVAILABLE	500mA	11,9V*					72 %
		[D]	**6,4W**	587lm - 92lm/W	587lm - 92lm/W	NOT AVAILABLE	350mA	18,3V*	L_{90} L_{80}	>30000h >60500h	RG1	2	100 %
			9,5W	755lm - 79lm/W	755lm - 79lm/W	NOT AVAILABLE	500mA	19,1V*					71 %
		[E]	**-**										
		[F]	**2W**	160lm - 79lm/W	172lm - 85lm/W	NOT AVAILABLE	700mA	2,9V*	L_{80}	>36300h	RG2 TRESHOLD 0,6m	3	-
			3,2W	226lm - 72lm/W	243lm - 77lm/W	NOT AVAILABLE	1050mA	3,0V*					-
			4,3W	274lm - 64lm/W	279lm - 69lm/W	NOT AVAILABLE	1400mA	3,1V*					-
		[G]	**3W**	252lm - 84lm/W	280lm - 93lm/W	NOT AVAILABLE	350mA	8,8V*	L_{70}	>50000h	RG1	2	100 %
			7W	453lm - 69lm/W	502lm - 76lm/W	NOT AVAILABLE	700mA	9,4V*					51 %
		[H]	**6W**	643lm - 133lm/W	670lm - 118lm/W	717lm - 126lm/W	300mA	20,0V*	L_{70}	>50000h	RG1	2	100 %
			7,1W	743lm - 111lm/W	774lm - 116lm/W	829lm - 124lm/W	350mA	20,2V*					97 %
			10,4W	1032lm - 105lm/W	1075lm - 110lm/W	1148lm - 117lm/W	500mA	20,7V*					68 %
			15W	1388lm - 98lm/W	1446lm - 102lm/W	1544lm - 109lm/W	700mA	21,4V*					48 %
		[I] [1]	**11,7W**	1414lm - 124lm/W [4]	1467lm - 129lm/W	NOT AVAILABLE	350mA	33,4V*	L_{70}	>50000h	RG1	2	97 %
		[J]	**16,8W**	1923lm - 118lm/W	1995lm - 122lm/W	2139lm - 131lm/W	500mA	33,7V*	L_{70}	>50000h	RG1	2	36 %
			20,5W	2295lm - 115lm/W	2380lm - 120lm/W	2553lm - 128lm/W	600mA	34,2V*					30 %
			24,3W	2653lm - 113lm/W	2752lm - 117lm/W	2951lm - 125lm/W	700mA	34,7V*					25 %
			30W	3157lm - 108lm/W	3275lm - 113lm/W	3512lm - 121lm/W	850mA	35,3V*					20 %
			37,9W	3837lm - 104lm/W	3979lm - 108lm/W	4267lm - 116lm/W	1050mA	36,1V*					16 %
			43,9W	4324lm - 101lm/W	4486lm - 105lm/W	4810lm - 113lm/W	1200mA	36,6V*					14 %
		[K]	**23,9W**	2766lm - 119lm/W	2870lm - 123lm/W	3077lm - 132lm/W	700mA	34,2V*	L_{70}	>50000h	RG1	2	25 %
			37,2W	3992lm - 110lm/W	4142lm - 114lm/W	4441lm - 122lm/W	1050mA	35,4V*					17 %
			43,1W	4510lm - 107lm/W	4680lm - 111lm/W	5018lm - 119lm/W	1200mA	35,9V*					14 %
			51,1W	5155lm - 103lm/W	5349lm - 107lm/W	5735lm - 115lm/W	1400mA	36,5V*					12 %
		[L]	**11W**	965lm - 88lm/W	965lm - 88lm/W	-	500mA	22V*	L_{90}	>36000h	RG1	2	58 %
CRI > 95													
		[M]	**10,9W**	700lm - 64lm/W	700lm - 64lm/W	700lm - 64lm/W	500mA	21V*	L_{90}	>36000h	RG1	2	62 %
			13,4W	832lm - 52lm/W	832lm - 52lm/W	832lm - 52lm/W	600mA	22,4V*					48 %
		[N]	**10,9W**	965lm - 89lm/W	965lm - 89lm/W	965lm - 89lm/W	500mA	21,7V*	L_{90}	>36000h	RG1	2	53 %
			13,3W	1130lm - 85lm/W	1130lm - 85lm/W	1130lm - 85lm/W	600mA	22,1V*					43 %
		[O]	**13,6W**	800lm - 59lm/W	800lm - 59lm/W	800lm - 59lm/W	500mA	27,1V*	L_{90}	>36000h	RG1	2	45 %
			19,5W	1110lm - 57lm/W	1110lm - 57lm/W	1110lm - 57lm/W	700mA	27,8V*					30 %
		[P]	**12W**	1055lm - 88lm/W	1055lm - 88lm/W	1055lm - 88lm/W	500mA	23,8V*	L_{90}	>36000h	RG1	2	52 %
			14,4W	1225lm - 85lm/W	1225lm - 85lm/W	1225lm - 85lm/W	600mA	24,1V*					43 %
			17W	1400lm - 82lm/W	1400lm - 82lm/W	1400lm - 82lm/W	700mA	24,3V*					36 %

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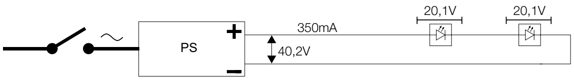
DO'S & DON'TS

play.deltalight.com/connectleds

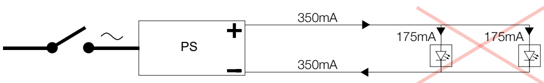
CONNECTION

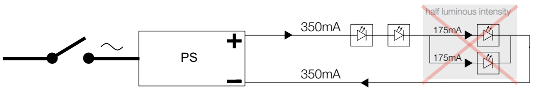
CORRECT CONNECTION: SERIAL CONNECTION



WRONG CONNECTION: PARALLEL CONNECTION

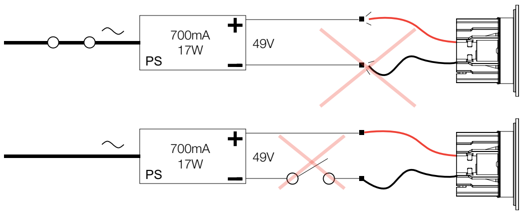
Depending on the number of fixtures the LED modules will function at half (2 LED's), one third (3 LED's) the luminous intensity. Moreover, due to different forward voltages the current will not split in equal part.





WRONG CONNECTION: TESTING OF LED MODULES ON SWITCHED ON POWER SUPPLY

Risk for an output voltage that exceeds the max for the LED.
A power supply that is switched on has max output on the secundary side (eg. 49V). The LED in eg. a Reo 3030 is 7W works at 350mA and 20,1V.
49V is far too high for the Reo 3030 >>
LED will be damaged.



WRONG POWER SUPPLY:

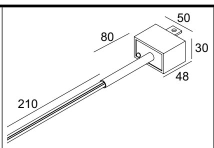
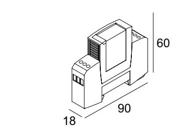
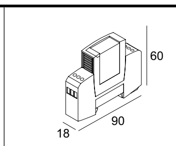
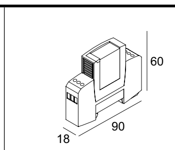
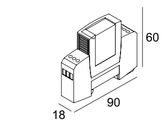
Question:
How many Reo (7W) luminaires can be connected to power supply 300 90 914?
7W x 4 = 28W >>> max **power** of 300 90 914 = 35W >>> **OK**
4 x 20,1V = 80,4V >>> max **voltage** of 300 90 914 = 72V >>> **NOT OK**

Answer:
3 x Reo (7W) luminaires can be connected to power supply 300 90 914

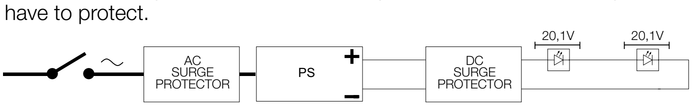
Therefore: **always consult the matrix on FOLD-OUT!**

NEW

PROTECTION

Type					
SURGE PROTECTOR	**AC**	**AC 110-120V DIN**	**AC 230-240V DIN**	**DC 30V-DC**	**DC 75V-DC**
	300 90 013	**300 90 017**	**300 90 018**	**300 90 014**	**300 90 015**
	CE 0,1 IP65	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20
Dimensions (L x W x H)	50 x 48 x 30	90 x 18 x 60	90 x 18 x 60	90 x 18 x 60	90 x 18 x 60
Input	230-240V / 50-60Hz	110-120V / 50-60Hz	230-240V / 50-60Hz	30V-DC	75V-DC
Nominal Discharge Current	5 kA	2 kA	3 kA	1 kA	2 kA
Max. Discharge Current	10 kA	4 kA	5 kA	2 kA	4 kA

Electrical devices are sensitive for excessive voltage peaks.
Especially outdoor power lines are subject to direct and indirect lightning discharges. Also in industrial or semi-industrial area's the powerlines can be subject to high switching spikes. Therefore Deltalight strongly advices to use proper power line surge protection. Our AC surge protectors are to be installed on the primary side of led power supplies and the DC types on the secondary side. Both as close as possible to the device they have to protect.



tech

OPTIONS
CURRENT CONTROLLED

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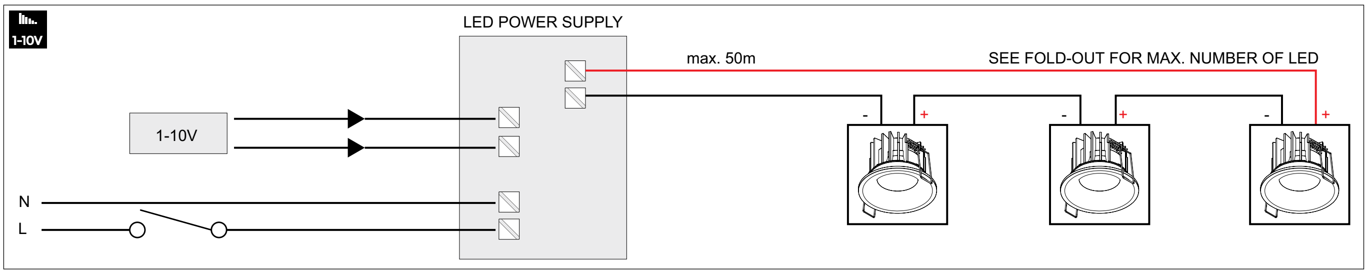
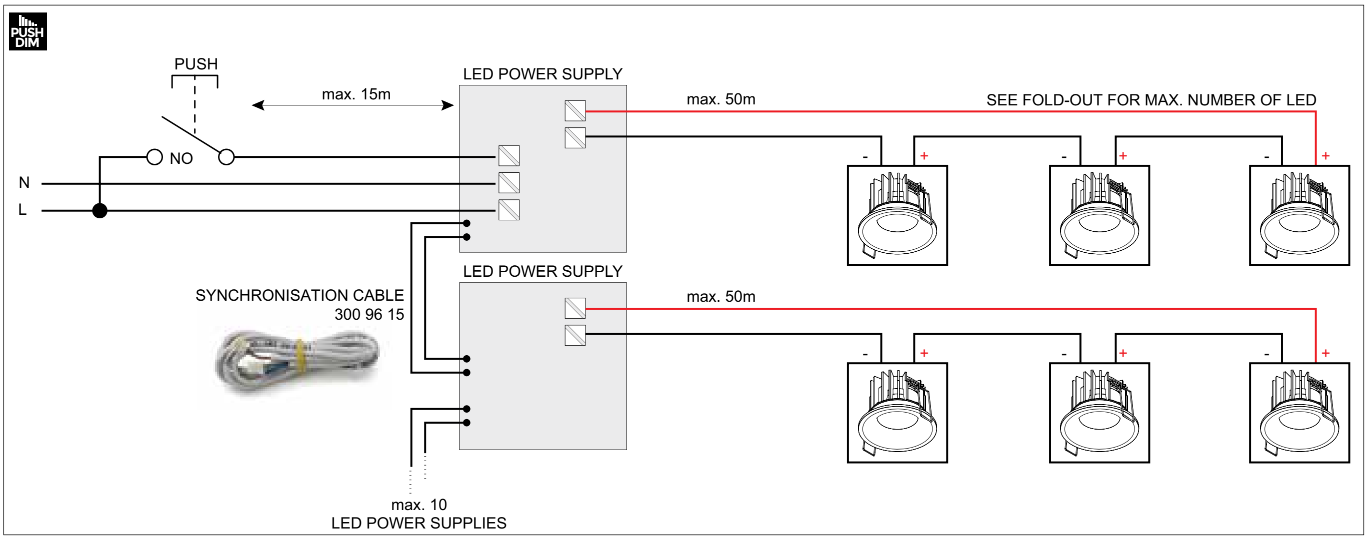
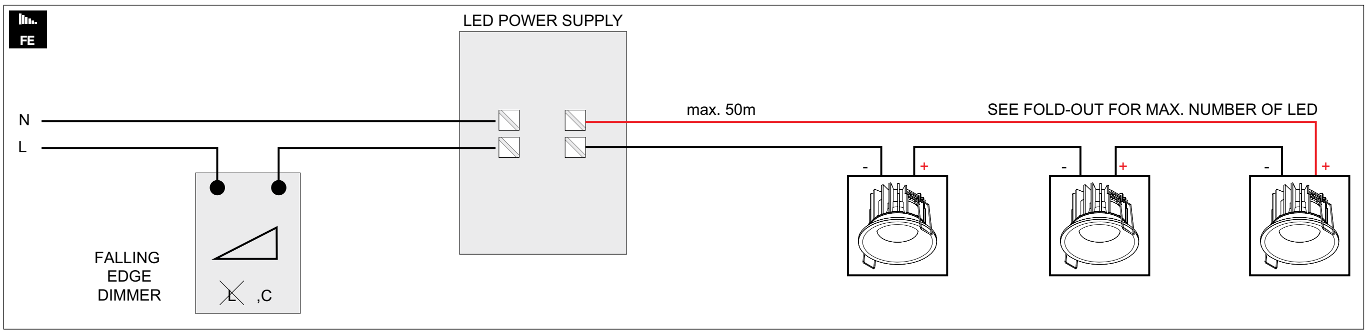
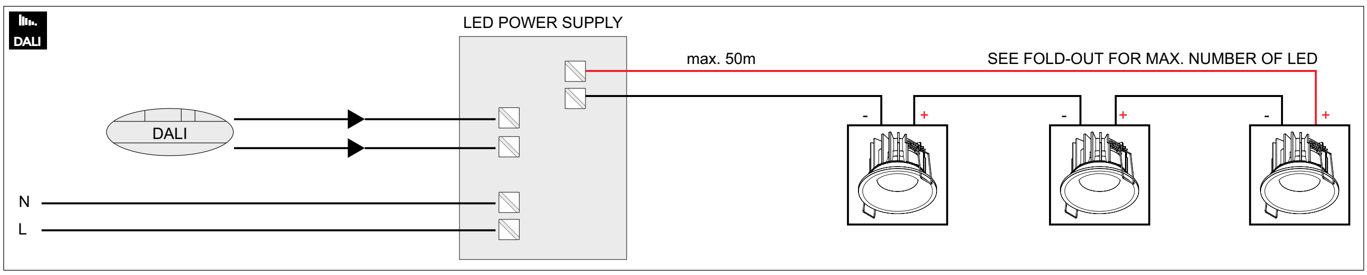
DIMMABLE LED POWER SUPPLY - INSTALLATION SCHEME

DIM1 1-10V
DIM6 SWITCH DIM
DIM7 1-10V + SWITCH DIM
DIM8 FALLING EDGE DIMMING
DIM9 1-10V + SWITCH DIM + DALI







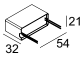
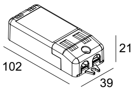
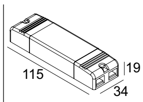
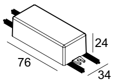
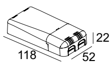


ALL DIAGRAMS ARE TYPICAL, PLEASE CHECK MAXIMUM POWER OF EACH INDIVIDUAL DIVICE FOR PRACTICAL USE.

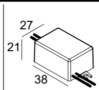
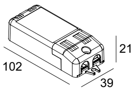
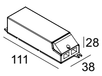
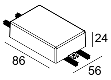
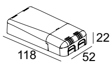
tech

OPTIONS
CURRENT CONTROLLED

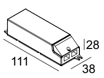
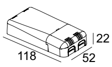
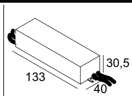
LED POWER SUPPLY 350mA-DC

Type					
LED POWER SUPPLY...	**350mA / 8W**	**350mA / 10W DIM8**	**350mA / 15W (110-120V: 10W)**	**350mA / 16W DIM8**	**350mA / 18W DIM8**
	300 90 108	**300 90 110**	**300 90 91**	**300 90 3112**	**300 90 116**
	☐ CE 0,1 IP54	☐ FE CE 0,1 IP20	☐ CE 0,1 IP20	☐ FE CE 0,3 IP65	☐ FE CE 0,2 IP20
Dimensions (L x W x H)	54 x 21 x 32 (min. 40)	102 x 38 x 21 (min. 45)	115 x 34 x 19 (min. 38)	76 x 34 x 24 (min. 43)	118 x 52 x 22 (min. 55)
Input	100-240V / 50-60Hz	220-240V / 50-60Hz	100-240V / 50-60Hz	100-240V / 50-60Hz	220-240V / 0l50/60Hz
Output	0-25V-DC	12-28V-DC	0-43V-DC	17-46V-DC	25-51V-DC
λ	0,6	> 0,9	0,54 (240V) - 0,64 (100V)	> 0,9	> 0,9
DIM	-	DIM8 (10-100%)	-	DIM8 (10-100%)	DIM8 (10-100%)

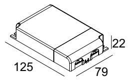
LED POWER SUPPLY 500mA-DC

Type	NEW 				NEW 
LED POWER SUPPLY...	**500mA / 4W**	**500mA / 11W DIM8**	**500mA / 20W (110V: 12W)**	**500mA / 22W DIM8**	**500mA / 21W DIM8**
	300 90 22	**300 90 119**	**300 90 92**	**300 90 5120**	**300 90 121**
	☐ CE 0,1 IP65	☐ FE CE 0,1 IP20	☐ CE 0,1 IP20	☐ FE CE 0,3 IP65	☐ FE CE 0,3 IP20
Dimensions (L x W x H)	38 x 27 x 21 (min. 40)	102 x 38 x 21 (min. 45)	111 x 38 x 28 (min. 46)	86 x 56 x 24 (min. 61)	118 x 52 x 22 (min. 55)
Input	120-240V / 50-60Hz	220-240V / 50/60Hz	110-240V / 50-60Hz	110-240V / 0l50/60Hz	220-240V / 0l50/60Hz
Output	3-8V-DC	9-22V-DC	3,5-42V-DC	24-45V-DC	16-42V-DC
λ	< 0,5	> 0,9	0,57	> 0,9	> 0,9
DIM	-	DIM8 (10-100%)	-	DIM8 (10-100%)	DIM8 (10-100%)

LED POWER SUPPLY 700mA-DC

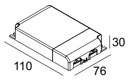
Type			
LED POWER SUPPLY...	**700mA / 17W (110V: 12W)**	**700mA / 20W DIM8**	**700mA / 36W DIM8**
	300 90 93	**300 90 118**	**300 90 123**
	☐ CE 0,1 IP20	☐ FE CE 0,2 IP20	☐ FE CE 0,3 IP54
Dimensions (L x W x H)	111 x 38 x 28 (min. 46)	118 x 52 x 22 (min. 55)	133 x 40 x 30,5 (min. 50)
Input	110-240V / 50-60Hz	220-240V / 50-60Hz	220-240V / 50-60Hz
Output	3,5-26V-DC	16-28V-DC	4-52V-DC
λ	0,6	> 0,9	0,97
DIM	-	DIM8 (10-100%)	DIM8 (10-100%)

LED POWER SUPPLY MULTI-POWER

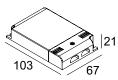
Type				
LED POWER SUPPLY MULTI-POWER				
	300 90 914			
	CE 0,1 IP20			
Dimensions (L x W x H)	124,5 x 79 x 22 (min. 82)			
Input	110-240V / 50-60Hz (110V: 40W)			
Output	350mA / 25W / 2-74V-DC	500mA / 35W / 2-72V-DC	700mA / 50W / 2-70V-DC	1050mA / 50W / 2-48V-DC
λ	> 0,9			
DIM	-			

LED POWER SUPPLY MULTI-POWER HV

NEW

Type				
LED POWER SUPPLY MULTI-POWER HV				
	300 90 135			
	CE 0,1 IP20			
Dimensions (L x W x H)	110 x 76 x 30 (min. 90)			
Input	220-240V / 50-60Hz			
Output	350mA / 30W / 43-85V-DC	500mA / 40W / 30-85V-DC	700mA / 60W / 25-86V-DC	1050mA / 70W / 25-67V-DC
λ	> 0,95			
DIM	-			

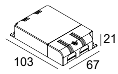
LED POWER SUPPLY MULTI-POWER DIM1

Type			
LED POWER SUPPLY MULTI-POWER DIM1			
	300 90 64		
	CE 0,1 IP20		
Dimensions (L x W x H)	103 x 67 x 21 (min. 70)		
Input	110-240V / 50-60Hz (110V: 15W)		
Output	350mA / 18W / 10-53V-DC	500mA / 25W / 2-50V-DC	600mA / 30W / 2-50V-DC
λ	> 0,9		
DIM	1-10V		

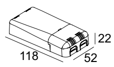
tech

OPTIONS
CURRENT CONTROLLED

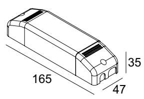
LED POWER SUPPLY MULTI-POWER DIM5

Type			
LED POWER SUPPLY MULTI-POWER DIM5			
	300 90 68		
	□ CE 0,2 IP20		
Dimensions (L x W x H)	103 x 67 x 21 (min. 70)		
Input	110-240V / 50-60Hz (110V: 15W)		
Output	350mA / 15W / 5-48V-DC	500mA / 24W / 5-48V-DC	700mA / 32W / 3-46V-DC
λ	> 0,9		
DIM	Dali		

LED POWER SUPPLY MULTI-POWER DIM5

Type		
LED POWER SUPPLY MULTI-POWER DIM5		
	300 90 125	
	□ CE 0,1 IP20	
Dimensions (L x W x H)	118 x 52 x 22 (min. 55)	
Input	110-240V / 50-60Hz (110V: 15W)	
Output	350mA / 15W / 2-43V-DC	500mA / 20W / 2-40V-DC
λ	> 0,9	
DIM	Dali	

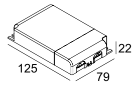
LED POWER SUPPLY MULTI-POWER DIM6

Type			
LED POWER SUPPLY MULTI-POWER DIM6			
	300 90 61		
	□ CE 0,1 IP20		
Dimensions (L x W x H)	165 x 47 x 35 (min. 55)		
Input	220-240V / 50-60Hz		
Output	350mA / 17W / 2-43V-DC	500mA / 24W / 2-43V-DC	700mA / 32W / 2-36V-DC
λ	> 0,9		
DIM	Switch DIM / Falling edge dimming (10-100%)		

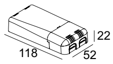
tech

LED POWER SUPPLY MULTI-POWER HV DIM7

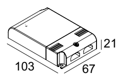
NEW

Type			
LED POWER SUPPLY MULTI-POWER HV DIM7			
	300 90 134		
	□ CE 0,1 IP20		
Dimensions (L x W x H)	125 x 79 x 22 (min. 84)		
Input	110-240V / 50-60Hz (110V: 40W)		
Output	350mA / 40W / 2-112V-DC	500mA / 50W / 2-100V-DC	700mA / 50W / 2-71V-DC
λ	> 0,9		
DIM	Switch DIM / 1-10V		

LED POWER SUPPLY MULTI-POWER DIM7

Type		
LED POWER SUPPLY MULTI-POWER DIM7		
	300 90 124	
	□ CE 0,1 IP20	
Dimensions (L x W x H)	118 x 52 x 22 (min. 55)	
Input	110-240V / 50-60Hz (110V: 15W)	
Output	350mA / 15W / 2-43V-DC	500mA / 20W / 2-43V-DC
λ	> 0,9	
DIM	Switch DIM / 1-10V	

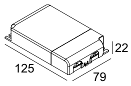
LED POWER SUPPLY MULTI-POWER DIM7

Type			
LED POWER SUPPLY MULTI-POWER DIM7			
	300 90 60		
	□ CE 0,1 IP20		
Dimensions (L x W x H)	103 x 67 x 21 (min. 70)		
Input	110-240V / 50-60Hz (110V: 15W)		
Output	350mA / 15W / 2-43V-DC	500mA / 22W / 2-43V-DC	700mA / 25W / 2-36V-DC
λ	> 0,9		
DIM	Switch DIM / 1-10V		

tech

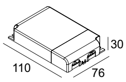
OPTIONS
CURRENT CONTROLLED

LED POWER SUPPLY MULTI-POWER DIM9

Type				
LED POWER SUPPLY MULTI-POWER DIM9				
	300 90 63			
	□ CE 0,1 IP20			
Dimensions (L x W x H)	125 x 79 x 22 (min. 84)			
Input	110-240V / 50-60Hz (110V: 40W)			
Output	350mA / 25W / 2-74V-DC	500mA / 35W / 2-72V-DC	700mA / 50W / 2-71V-DC	1050mA / 50W / 2-48V-DC
λ	> 0,9			
DIM	Switch DIM / 1-10V / Dali			

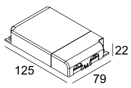
LED POWER SUPPLY MULTI-POWER HC DIM9

NEW

Type			
LED POWER SUPPLY MULTI-POWER HC DIM9			
	300 90 136		
	□ CE 0,2 IP20		
Dimensions (L x W x H)	110 x 76 x 30 (min. 90)		
Input	110-240V / 50-60Hz (110V: 40W)		
Output	1050mA / 45W / 2-44V-DC	1200mA / 52W / 2-44V-DC	1400mA / 55W / 2-43V-DC
λ	> 0,9		
DIM	Switch DIM / 1-10V / Dali		

LED POWER SUPPLY MULTI-POWER HV DIM9

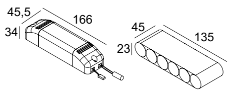
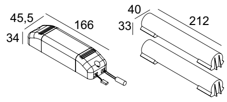
NEW

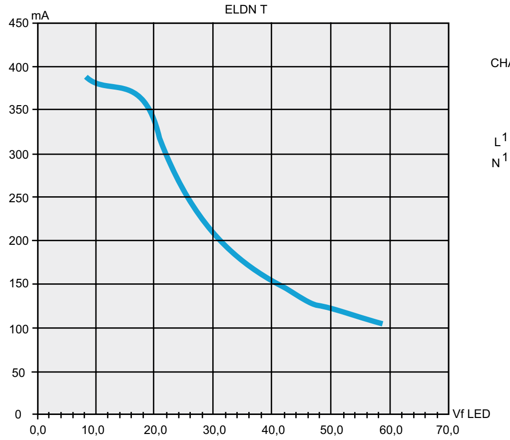
Type			
LED POWER SUPPLY MULTI-POWER HV DIM9			
	300 90 69		
	□ CE 0,1 IP20		
Dimensions (L x W x H)	125 x 79 x 22 (min. 84)		
Input	110-240V / 50-60Hz (110V: 40W)		
Output	350mA / 40W / 10-112V-DC	500mA / 50W / 2-100V-DC	700mA / 50W / 2-71V-DC
λ	> 0,9		
DIM	Switch DIM / 1-10V / Dali		

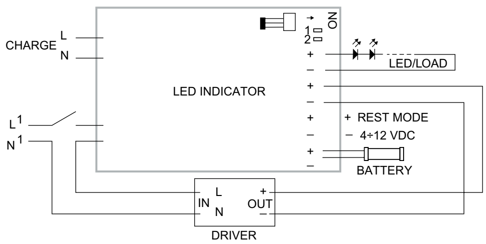
tech

NEW

EMERGENCY UNITS

Type		
EMERGENCY UNIT	**7W / 1h**	**7W / 3h**
	202 91 0701	**202 91 0703**
	□ CE 0,4 IP20	□ CE 0,6 IP20
Dimensions (L x W x H)	166 x 46 x 34 + 135 x 45 x 23	166 x 46 x 34 + 2 x (212 x 40 x 33)
Input	220-240V / 50-60Hz	220-240V / 50-60Hz
Output	9-46V-DC / 125-350mA	9-46V-DC / 125-350mA
Battery Type	NI-Cd BATTERY 7,2V - 1,6Ah	NI-Cd BATTERY 7,2V - 4Ah
Emergency Operation	1h	3h
Charging Time	24h	24h





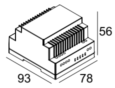
MAINTAINED WITH EXTERNAL ELECTRONIC DRIVER DIAGRAM
MAX. 2m DISTANCE EMERGENCY UNIT - DRIVER

Emergency units are battery powered units that come into force in case of general power failure. In Lighting Bible 12 we offer emergency units specifically for LED luminaires. Thanks to the battery, a luminaire can keep emitting an amount of light, equal to a percentage of the nominal value when the luminaire is emitting at full power. This percentage is determined by the emergency unit and is known as the Ballast-Lumen Factor (BLF). More info on this Ballast Lumen Factor can be found on PAG TEC 14-15 based on the type of LED.

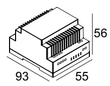
tech

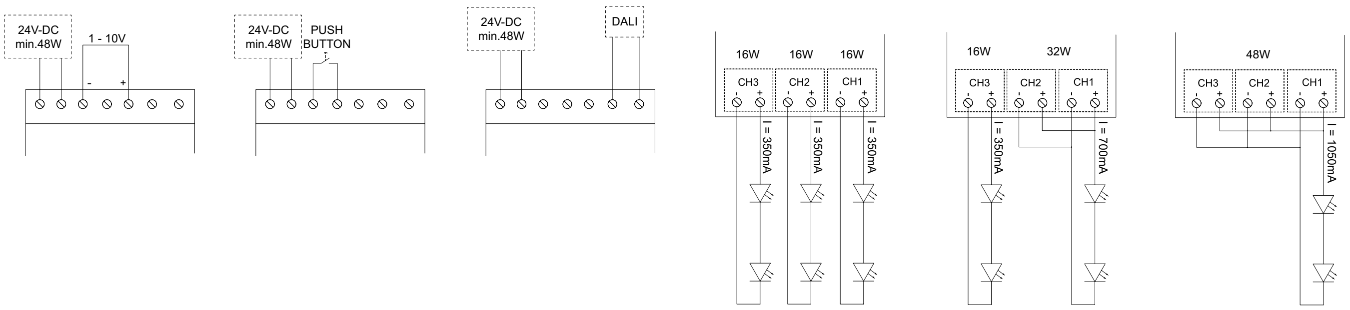
OPTIONS
POWER CONVERTOR

LED POWER SUPPLY 24V-DC

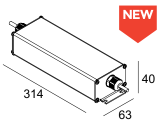
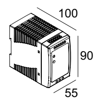
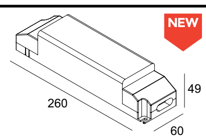
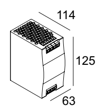
Type	
LED POWER SUPPLY 24V-DC	**24V-DC / 60W**
	300 89 24 61
	□ CE 0,1 IP20
Dimensions (L x W x H)	93 x 78 x 56
Input	100-240V / 50-60Hz
Output	24V-DC / 60W
λ	> 0,8
DIM	-

LED POWER CONVERTER 24V-DC → MULTI CURRENT / 48W DIM9

Type			
LED POWER CONVERTER 24V-DC → MULTI CURRENT / 48W DIM9			
	300 90 67		
	□ CE 0,1 IP20		
Dimensions (L x W x H)	93 x 55 x 56		
Input	24V-DC		
Output	350mA / 48W	700mA / 32W	1050mA / 48W
λ			
Dim	Switch Dim / 1-10V / Dali		

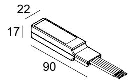
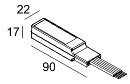
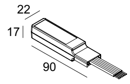


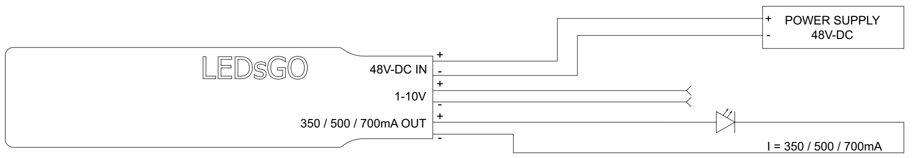
LED POWER SUPPLY 48V-DC

Type				
	LED POWER SUPPLY 48V-DC / 90W	**LED POWER SUPPLY 48V-DC / 100W**	**LED POWER SUPPLY 48V-DC / 150W**	**LED POWER SUPPLY 48V-DC / 240W**
	300 89 48 90	**300 89 48 100**	**300 89 48 150**	**300 89 48 240**
	□ CE 0,8 IP66	□ CE 0,4 IP20	□ CE 0,3 IP20	□ CE 1,0 IP20
DIMensions (L x W x H)	314 x 63 x 40	55 x 90 x 100	240 x 60 x 49	63 x 125 x 114
Input	115-230V / 50-60Hz	100-240V / 50-60Hz	220-240V / 50-60Hz	100-240V / 50-60Hz
Output	**48V-DC /90W**	**48V-DC /100W**	**48V-DC /150W**	**48V-DC /240W**
λ	> 0,92	> 0,93	> 0,93	> 0,93
DIM	-	-	-	-

tech

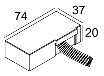
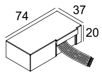
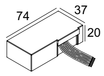
LED POWER CONVERTOR 48V-DC DIM1

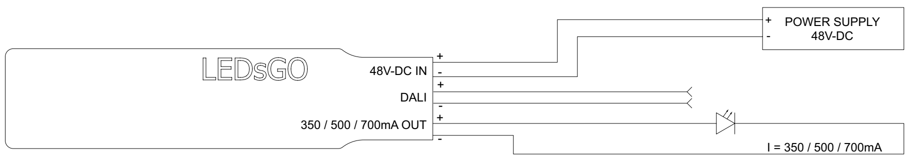
Type	NEW 	NEW 	NEW 
LED POWER CONVERTOR	**48V-DC–> 350mA / 15W DIM1**	**48V-DC–> 500mA / 22W DIM1**	**48V-DC–> 700mA / 25W DIM1**
	300 48 350 ED1	**300 48 500 ED1**	**300 48 700 ED1**
	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20
Dimensions (L x W x H)	90 x 22 x 17 (min. 30)	90 x 22 x 17 (min. 30)	90 x 22 x 17 (min. 30)
Input	48V-DC	48V-DC	48V-DC
Output	350mA-DC / 15W	500mA-DC / 22W	700mA-DC / 25W



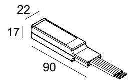
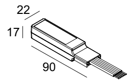
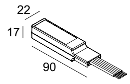
1-10V = 1-100% LIGHT / 0V = OFF

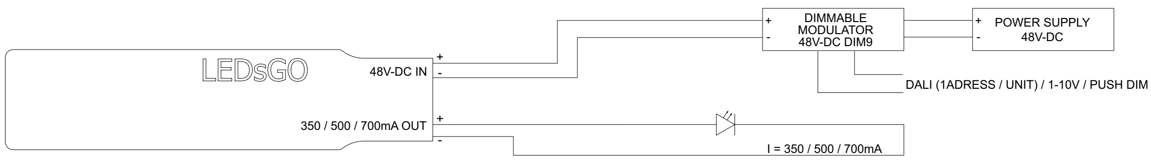
LED POWER CONVERTOR 48V-DC DIM5

Type	NEW 	NEW 	NEW 
LED POWER CONVERTOR	**48V-DC–> 350mA / 15W DIM5**	**48V-DC–> 500mA / 22W DIM5**	**48V-DC–> 700mA / 25W DIM5**
	300 48 350 ED5	**300 48 500 ED5**	**300 48 700 ED5**
	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20
Dimensions (L x W x H)	74 x 36 x 20 (min. 45)	74 x 36 x 20 (min. 45)	74 x 36 x 20 (min. 45)
Input	48V-DC	48V-DC	48V-DC
Output	350mA-DC / 15W	500mA-DC / 22W	700mA-DC / 25W

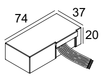
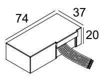
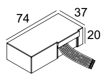


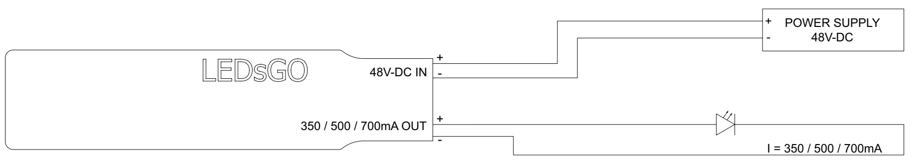
LED POWER CONVERTOR 48V-DC MODULATION DIM LOW VOLTAGE (MDL)

Type	NEW 	NEW 	NEW 
LED POWER CONVERTOR	**48V-DC–> 350mA / 15W MDL**	**48V-DC–> 500mA / 22W MDL**	**48V-DC–> 700mA / 25W MDL**
	300 48 350 MDL	**300 48 500 MDL**	**300 48 700 MDL**
	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20
Dimensions (L x W x H)	90 x 22 x 17 (min. 30)	90 x 22 x 17 (min. 30)	90 x 22 x 17 (min. 30)
Input	48V-DC	48V-DC	48V-DC
Output	350mA-DC / 15W	500mA-DC / 22W	700mA-DC / 25W



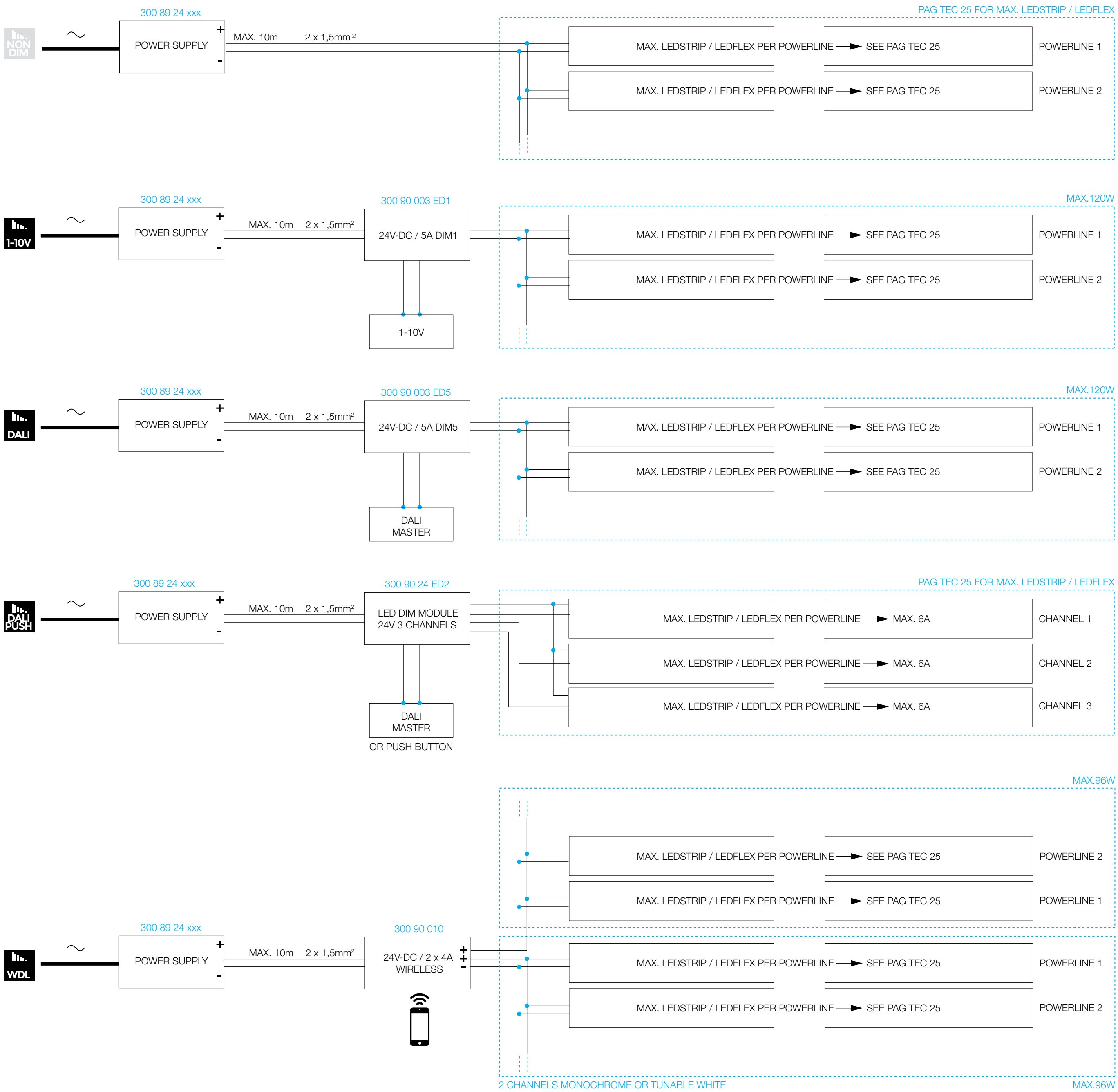
LED POWER CONVERTOR 48V-DC WIRELESS DIM LOW VOLTAGE (WDL)

Type	NEW 	NEW 	NEW 
LED POWER CONVERTOR	**48V-DC–> 350mA / 15W WDL**	**48V-DC–> 500mA / 22W WDL**	**48V-DC–> 700mA / 25W WDL**
	300 48 350 WDL	**300 48 500 WDL**	**300 48 700 WDL**
	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20
Dimensions (L x W x H)	74 x 36 x 20 (min. 45)	74 x 36 x 20 (min. 45)	74 x 36 x 20 (min. 45)
Input	48V-DC	48V-DC	48V-DC
Output	350mA-DC / 15W	500mA-DC / 22W	700mA-DC / 25W



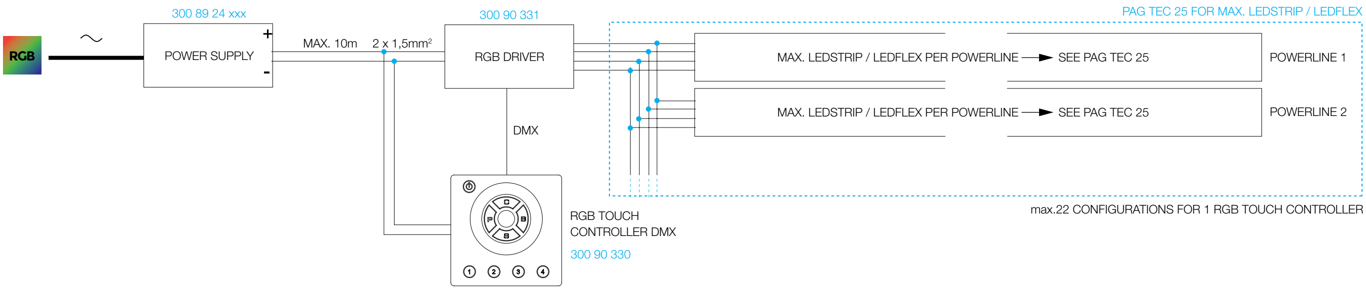
OPTIONS
VOLTAGE CONTROLLED

LED POWER SUPPLY 24V-DC - INSTALLATION SCHEME - LEDSTRIP / LEDFLEX WHITE

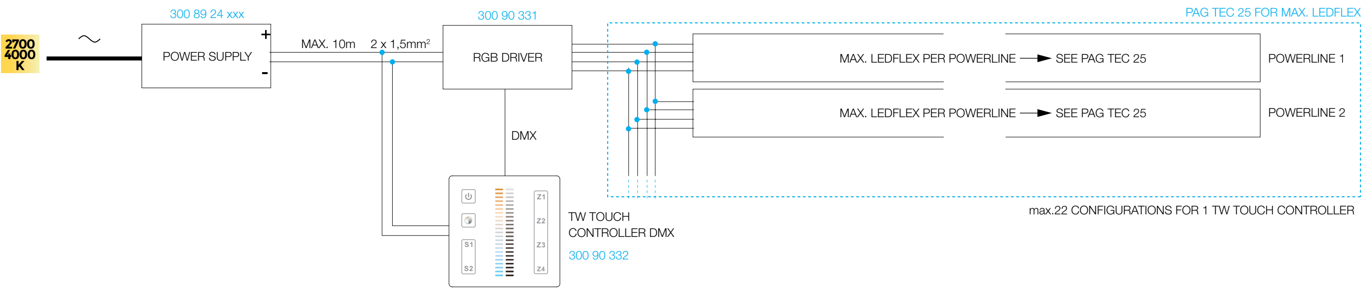


tech

LED POWER SUPPLY 24V-DC - INSTALLATION SCHEME - LEDSTRIP / LEDFLEX RGB

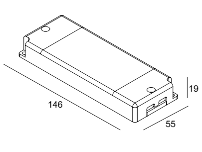
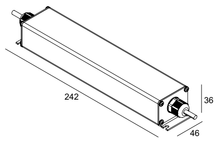
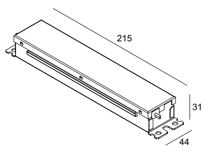
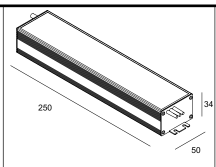
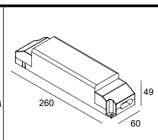


LED POWER SUPPLY 24V-DC - INSTALLATION SCHEME - LEDFLEX TW



ALL DIAGRAMS ARE TYPICAL, PLEASE CHECK MAXIMUM POWER OF EACH INDIVIDUAL DIVICE FOR PRACTICAL USE.

LED POWER SUPPLY 24V-DC

Type					
LED POWER SUPPLY...	**24V-DC / 20W**	**24V-DC / 40W**	**24V-DC / 60W**	**24V-DC / 80W**	**24V-DC / 150W**
	300 89 24 20	**300 89 24 40**	**300 89 24 60**	**300 89 24 80 ED1**	**300 89 24 150**
	CE 0,1 IP20	CE 0,1 IP67	CE 0,1 IP67	CE 0,3 IP67	CE 0,1 IP20
Dimensions (L x W x H)	146 x 55 x 19	242 x 46 x 36	215 x 44 x 31	250 x 50 x 34	260 x 60 x 49
Input	110-240V / 50-60Hz	100-240V / 50-60Hz	120-240V / 50-60Hz	220-240V / 50-60Hz	220-240V / 50-60Hz
Output	24V-DC / 20W (110V: 10W)	24V-DC / 40W	24V-DC / 60W	24V-DC / 80W	24V-DC / 150W
λ	0,55	> 0,95	0,99	> 0,90	0,98
DIM	-	-	-	DIM 1	-

LEDSTRIP					
LEDSTRIP xx F	max.6 (3)	max.13	max.20	max.26 (max.20/powerline)	max.50 (max.20/powerline)
LEDSTRIP xx FP	max.2 (1)	max.4	max.6	max.8 (max.6/powerline)	max.15 (max.6/powerline)
LEDSTRIP xx RGB	max.2* (1)	max.5*	max.7*	-	max.18*

LEDFLEX					
LEDFLEX IN	max.4m (2m)	max.8m (max.5m/powerline)	max.12m (max.5m/powerline)	max.16m (max.5m/powerline)	max.30m (max.5m/powerline)
LEDFLEX IN FP	max.1m (0,5m)	max.2,5m	max.4m (max.3m/powerline)	max.5m (max.3m/powerline)	max.10m (max.3m/powerline)
LEDFLEX IN HP	max.0,9m (0,45m)	max.1,8m	max.2,7m	max.3,6m (max.3m/powerline)	max.6,8m (max.3m/powerline)
LEDFLEX IN TW	max.1,3m (0,6m)	max.2,7m	max.4,1m	max.5,5m (max.3m/powerline)	max.10,4m (max.3m/powerline)
LEDFLEX IN RGB	max.2,4m* (1,2m)	max.5m*	max.7,36m*	-	max.18,72m*
LEDFLEX IN RGBW	max.1,1m	max.2,3m	max.3,5m	max.4,7m	max.8,9m
LEDFLEX OUT	max.4m (2m)	max.8m (max.5m/powerline)	max.12m (max.5m/powerline)	max.16m (max.5m/powerline)	max.30m (max.5m/powerline)
LEDFLEX OUT FP	max.1m (0,5m)	max.2,5m	max.4m (max.3m/powerline)	max.5m (max.3m/powerline)	max.10m (max.3m/powerline)
LEDFLEX OUT RGB	max.2,4m* (1,2m)	max.5m*	max.7,36m*	-	max.18,72m*

* Use in combination with RGB Driver

tech

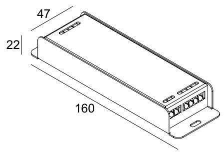
OPTIONS
VOLTAGE CONTROLLED

LED DIMMODULE 24V

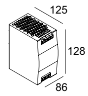
LED DIMMODULE 24V / 3CH / 6A DIM2
300 90 24 ED2
EXCL.POWER SUPPLY 12V-DC / 24V-DC
INPUT 12/24V-DC - OUTPUT MAX 432W / 18A (3 DALI CHANNELS OF 6A)
FOR LEDSTRIP / LEDFLEX W
DIMMING BY DALI / SWITCH DIM (ONE UNIT ONLY)

CE 0,1 IP20

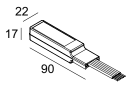
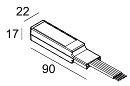
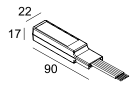
INSTALLATION SCHEME: TEC23

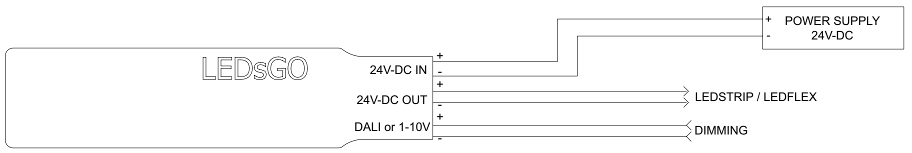


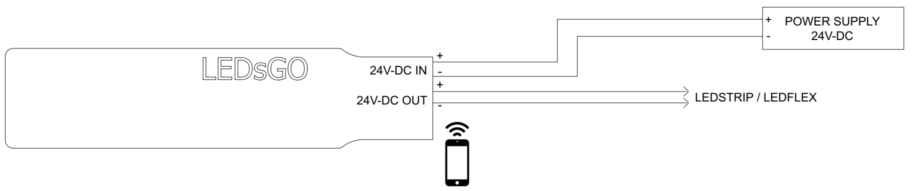
LED POWER SUPPLY 24V-DC / 480W

Type	
LED POWER SUPPLY 24V-DC	**24V-DC / 480W**
	300 89 24 480
	CE 1,6 IP20
Dimensions (L x W x H)	86 x 125 x 128
Input	100-240V / 50-60Hz
Output	24V-DC / 480W
λ	0,9
DIM	-

24V-DC DIM UNIT

Type	NEW 	NEW 	CTRL DELTA IN NEW 
DIM UNIT	**24V-DC / 5A DIM1**	**24V-DC / 5A DIM5**	**24V-DC / 4A WIRELESS DIM UNIT**
	300 90 003 ED1	**300 90 003 ED5**	**300 90 010**
	CE 0,1 IP20	CE 0,1 IP20	CE 0,1 IP20
Dimensions (L x W x H)	90 x 22 x 17 (min. 30)	90 x 22 x 17 (min. 30)	90 x 22 x 17 (min. 30)
Input	24V-DC	24V-DC	24V-DC
Output	24V-DC / 5A (max.120W)	24V-DC / 5A (max.120W)	24V-DC / 2 x 4A (max.96W)



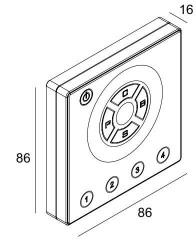


tech

RGB TOUCH CONTROLLER DMX

RGB TOUCH CONTROLLER DMX
300 90 330
EXCL.POWER SUPPLY 12V-DC / 24V-DC
DUAL MODE STATIC / DYNAMIC
INPUT 12V-DC / 24V-DC - DMX OUT

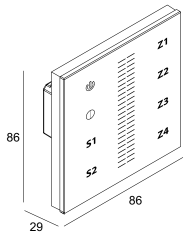
CE 0,1 IP20

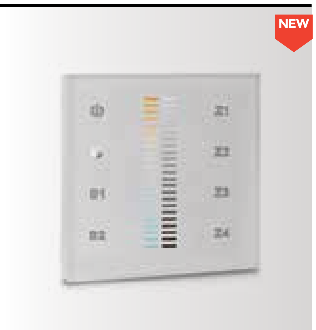


TW TOUCH CONTROLLER DMX

TW TOUCH CONTROLLER DMX
300 90 332
EXCL.POWER SUPPLY 12V-DC / 24V-DC
STATIC MODE
INPUT 12V-DC / 24V-DC - DMX OUT

CE 0,1 IP20

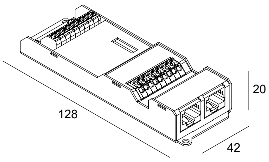




RGB DRIVER

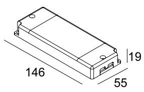
RGB DRIVER
300 90 331
EXCL.POWER SUPPLY 12V-DC / 24V-DC
INPUT 12V-DC - OUTPUT RGB 75W
INPUT 24V-DC - OUTPUT RGB 150W
FOR COMMON ANODE RGB LEDSTRIP / LEDFLEX
DUAL MODE DMX / STAND ALONE

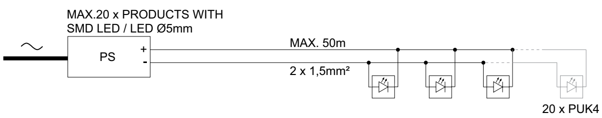
CE 0,1 IP20



LED POWER SUPPLY 12V-DC / 20W

NEW

Type	
LED POWER SUPPLY...	**12V-DC / 20W**
	300 89 12 20
	CE 0,1 IP20
Dimensions (L x W x H)	146 x 55 x 19
Input	110-240V / 50-60Hz
Output	12V-DC / 20W (110V: 10W)
λ	0,55
DIM	-



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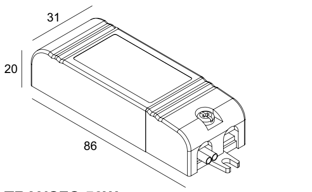
OPTIONS

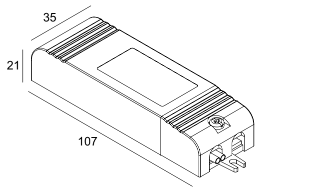
TRANSFO 50W



TRANSFO 50W
200 46 06
MAINS DIMMING (FE)
220-240V / 50-60Hz

□ CE 0,1 IP20

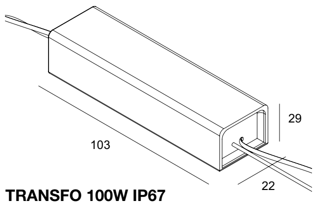
TRANSFO 100W



TRANSFO 100W
200 46 10
MAINS DIMMING (FE)
220-240V / 50-60Hz

□ CE 0,1 IP20

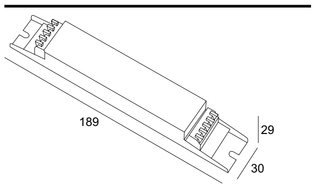
TRANSFO 100W IP67



TRANSFO 100W IP67
200 47 10
MAINS DIMMING (FE)
220-240V / 50-60Hz

□ CE 0,1 IP67

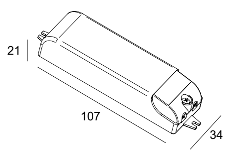
DALI TO 1-10V CONVERTER



DALI CONVERTER
385 611 ED5
220-240V / 50-60Hz
DALI TO 1-10V CONVERTER
max. 10 x POWER SUPPLY DIM1

CE 0,2 IP20

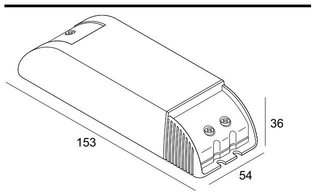
LED TRANSFO 12V



LED TRANSFO 12V-70W
300 89 12 71
220-240V / 50-60Hz
1-70W FALLING EDGE DIMMABLE TRANSFO
OUTPUT 12V-AC

□ CE 0,1 IP20

FALLING EDGE DIMMER



FALLING EDGE DIMMER 200W DIM2
300 90 126
DIMMING OUTPUT FE DIMMING (ED8) 3-200W
FOR BUTLER / SUPERNOVA XS / SUPER-OH! XS
220-240V / 50-60Hz

□ CE 0,2 IP20

tech

OPTIONS
INSTALLATION

APPLICATION OF MOUNTING OPTIONS

SUSPENDED T-BAR & CEILING TILES (MIN. 8 MM)

APPLY: (replace tile by MDF)
TRIMLESS KIT
MOUNTING KIT 55/64/75
MOUNTING KIT / MOUNTING KIT L
ZB BOX

MF (METAL FRAME) CEILING DRY LINED / GYPROC / MDF

APPLY:
TRIMLESS KIT
MOUNTING KIT 55/64/75
MOUNTING KIT / MOUNTING KIT L
ZB BOX

STUCANET

APPLY:
PLASTERKIT
CONCRETE BOX
TRIMLESS KIT
ZB BOX

EXPOSED CONCRETE

APPLY:
EXPOSED CONCRETE PACK

CONCRETE + PLASTER

APPLY:
PLASTERKIT
CONCRETE BOX
CONCRETE PACK
TRIMLESS KIT
MOUNTING KIT / MOUNTING KIT L
ZB BOX

CONCRETE BEAM & BLOCK + PLASTER

APPLY:
PLASTERKIT
CONCRETE BOX
CONCRETE PACK
TRIMLESS KIT
MOUNTING KIT / MOUNTING KIT L
ZB BOX

PREFABRICATED CONCRETE PLATE

APPLY:
EXPOSED CONCRETE PACK

PREFABRICATED CONCRETE PLATE + PLASTER

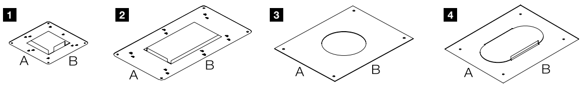
APPLY:
PLASTERKIT
CONCRETE BOX
TRIMLESS KIT
MOUNTING KIT / MOUNTING KIT L
ZB BOX

BRICK + PLASTER

APPLY:
PLASTERKIT
CONCRETE BOX
TRIMLESS KIT
MOUNTING KIT / MOUNTING KIT L
ZB BOX

Consult where used list
of mounting options per luminaire:
www.deltalight.com/mountingoptions

PLASTERKIT

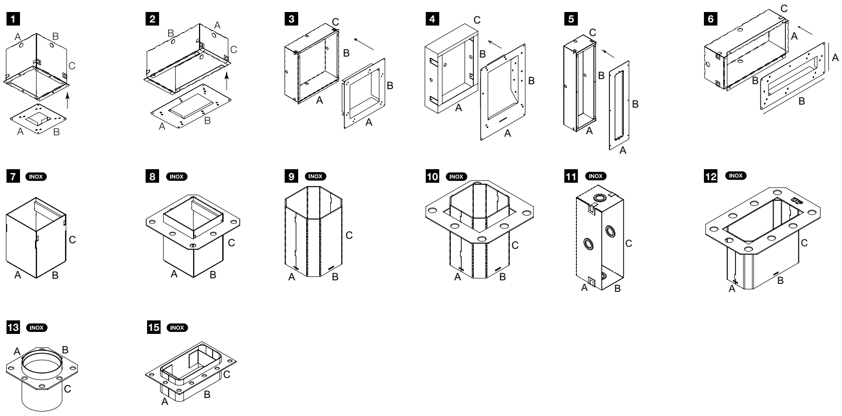


PLASTERKIT	REFERENCE	A x B	□	○	KG		S1 min. - max.	S2 min. - max.		TYPE
PLASTERKIT 101	202 11 19	205 x 205		77	0.1	80 x 180	195 - 205			3
PLASTERKIT 104	202 14 29	219 x 225		75 - 79 - 75	0.1	160 x 190				4
PLASTERKIT 108	202 20 19	185 x 185	63,5 x 70		0.1	75 x 80	120 - 150	100 - 150		1
PLASTERKIT 111	202 25 19	185 x 185	83 x 83		0.1	90 x 180	185	120 - 185		1
PLASTERKIT 118	202 56 99 01	280 x 280		163	0.3	220 x 220				3
PLASTERKIT 120	202 62 99 01	260 x 230	166 x 161		0.2	190 x 170				2
PLASTERKIT 121	202 62 99 02	260 x 399	166 x 298		0.4	190 x 310				2
PLASTERKIT 122	202 62 99 03	260 x 537	166 x 440		0.5	190 x 450				2
PLASTERKIT 126	202 72 99 01	215 x 215	112 x 112		0.3	120 x 120				1
PLASTERKIT 127	202 72 99 02	215 x 250	112 x 215		0.3	120 x 225				2
PLASTERKIT 145	304 05 99	140 x 235	24 x 170		0.1	110 x 180				2
PLASTERKIT 161	207 01 161	200 x 200	75 x 75		0.2	175 x 175	185 - 200	110 - 200		1
PLASTERKIT 162	207 01 162	200 x 200	64 x 64		0.1	155 x 155	165 - 200	90 - 200		1
PLASTERKIT 164	207 01 164	230 x 230		105	0.2	200 x 200				3
PLASTERKIT 170	207 01 170	230 x 230		98	0.3	100 x 220	220 - 230			3
PLASTERKIT 184	207 01 184	304 x 85	219 x 33		0.3	222 x 54				2
PLASTERKIT 185	207 01 185	200 x 200		121	0.2	170 x 170	133 - 152	133 - 152		3
PLASTERKIT 186	207 01 186	190 x 150	75 x 75		0.2	150 x 110		105 - 140		1
PLASTERKIT 193	207 01 193	230 x 230		102	0.3	180 x 180	160 - 220			3

tech

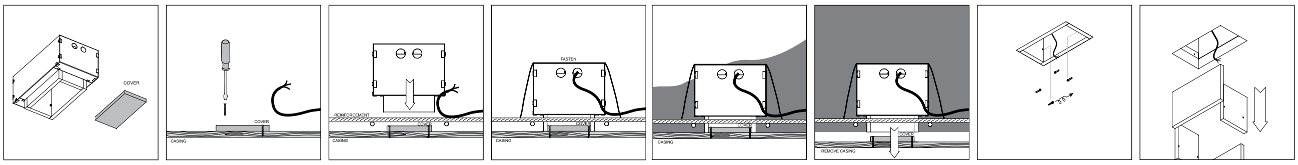
OPTIONS
INSTALLATION

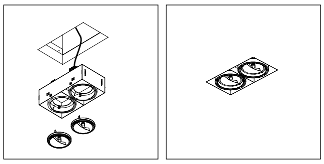
CONCRETE BOX

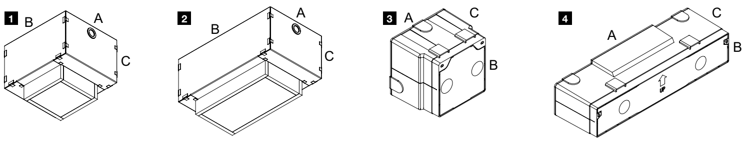


CONCRETE BOX	REFERENCE	A x B x C	KG				TYPE
CONCRETE BOX 108	202 20 18	185 x 185 x 160	0.4	190 x 190	170		1
CONCRETE BOX 111	202 25 18	185 x 185 x 160	0.4	190 x 190	170		1
CONCRETE BOX 120	202 62 98 01	230 x 260 x 120	1.3	235 x 265	130		1
CONCRETE BOX 121	202 62 98 02	260 x 399 x 120	2.2	265 x 405	130		2
CONCRETE BOX 145	304 05 98	150 x 210 x 75	0.9	155 x 215	80		5
CONCRETE BOX 151	302 19 21	42 x 42 x 58	0.1	43 x 43	65		8
CONCRETE BOX TR 152	302 19 22	42 x 42 x 58	0.1	43 x 43	65		7
CONCRETE BOX 153	302 20 21	43 x 43 x 60	0.1	43 x 43	65		10
CONCRETE BOX TR 154	302 20 22	43 x 43 x 60	0.1	43 x 43	65		9
CONCRETE BOX 161	270 11 161	202 x 202 x 186	0.6	207 x 207	196		1
CONCRETE BOX 162	270 11 162	202 x 202 x 186	0.6	207 x 207	196		1
CONCRETE BOX 183	270 11 183	96 x 45 x 41	0.1	98 x 48	80		15
CONCRETE BOX 184	270 11 184	270 x 91 x 65	0.4	273 x 94	75		2
CONCRETE BOX 185	270 11 185	219 x 41 x 65	0.5	222 x 45	75		2
CONCRETE BOX 186	270 11 186	145 x 105 x 70	0.4	150 x 110	75		3
CONCRETE BOX 187	270 11 187	80 x 95 x 70	0.5	85 x 100	75		11
CONCRETE BOX 188	270 11 188	Ø60 x 65	0.5	Ø67	65		13
CONCRETE BOX 191	270 11 191	310 x 80 x 95	0.4	315 x 80	110		2
CONCRETE BOX 192	270 11 192	130 x 120 x 105	0.4	135 x 125	115		2
CONCRETE BOX 195	270 11 195	Ø54 x 60	0.1	Ø56	65		13
CONCRETE BOX 196	270 11 196	51 x 51 x 60	0.1	52 x 52	65		8

CONCRETE PACK

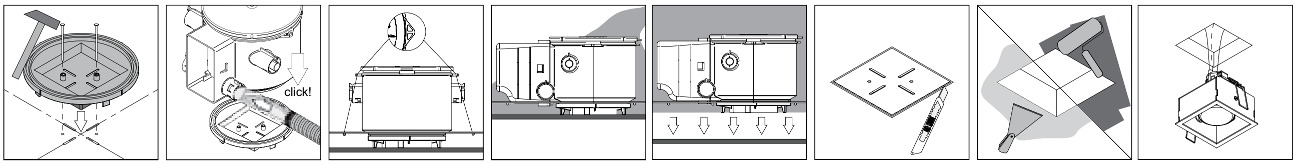




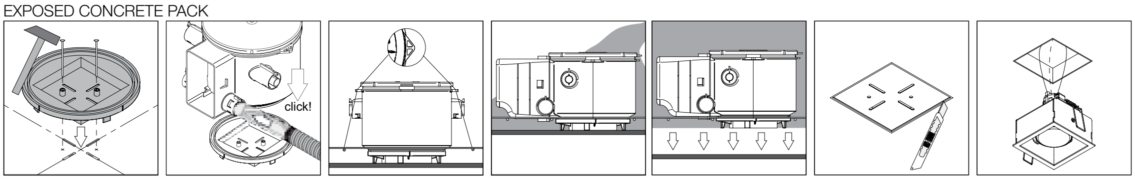


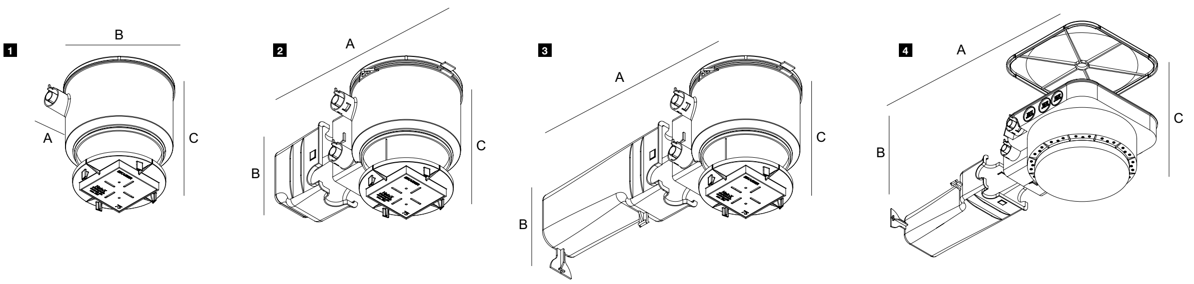
CONCRETE PACK	REFERENCE	A x B x C	KG			TYPE
EXPOSED CONCRETE PACK GIT 1	202 61 96 01	220 x 262 x 210	3.1	220 x 262	210	1
EXPOSED CONCRETE PACK GIT 2	202 61 96 02	220 x 401 x 210	6.5	220 x 401	210	2
CONCRETE PACK LOGIC W L	304 32 96	310 x 80 x 95	0.4	315 x 80	135	4
CONCRETE PACK LOGIC W S	304 33 96	130 x 120 x 105	0.4	135 x 125	140	3
CONCRETE PACK MGIT 1	202 71 96 01	133 x 160 x 133	1.5	160 x 160	140	1
CONCRETE PACK MGIT 2	202 71 96 02	234 x 160 x 133	2.1	260 x 160	140	2

CONCRETE PACK



EXPOSED CONCRETE PACK





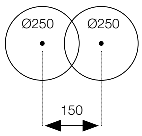
CONCRETE PACK	REFERENCE	A x B x C	KG			TYPE
CONCRETE PACK S75	207 02 9071	250 x 200 x 150	0.3	250 x 200	150	1
CONCRETE PACK C S75	207 02 9071 C	310 x 250 x 150	0.4	310 x 250	150	2
CONCRETE PACK T S75	207 02 9071 T	450 x 250 x 150	0.5	450 x 250	150	3
CONCRETE PACK T R76	207 02 9123 T	500 x 250 x 150	0.9	500 x 250	150	4
CONCRETE PACK TMK R82	207 02 9123 TMK	500 x 250 x 150	1	500 x 250	150	4
EXPOSED CONCRETE PACK S75	207 02 9093	250 x 200 x 150	0.3	250 x 200	150	1
EXPOSED CONCRETE PACK C S75	207 02 9093 C	310 x 250 x 150	0.4	310 x 250	150	2
EXPOSED CONCRETE PACK T S75	207 02 9093 T	450 x 250 x 150	0.5	450 x 250	150	3

tech

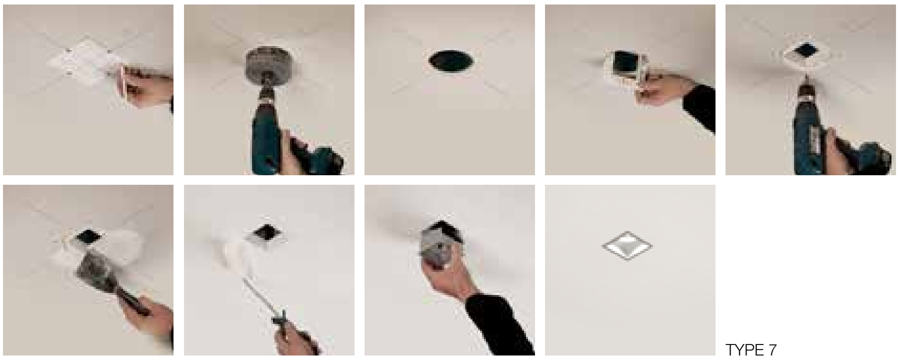
OPTIONS
INSTALLATION

TYPE 6

* Ø250 - 150 - Ø250

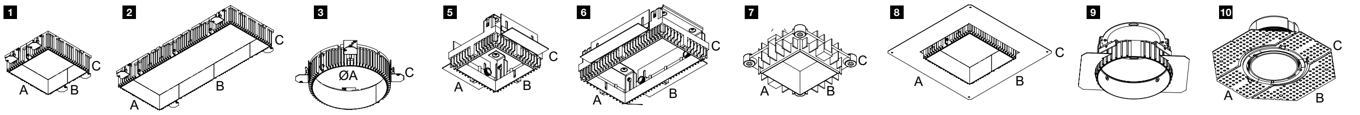


TYPE 8



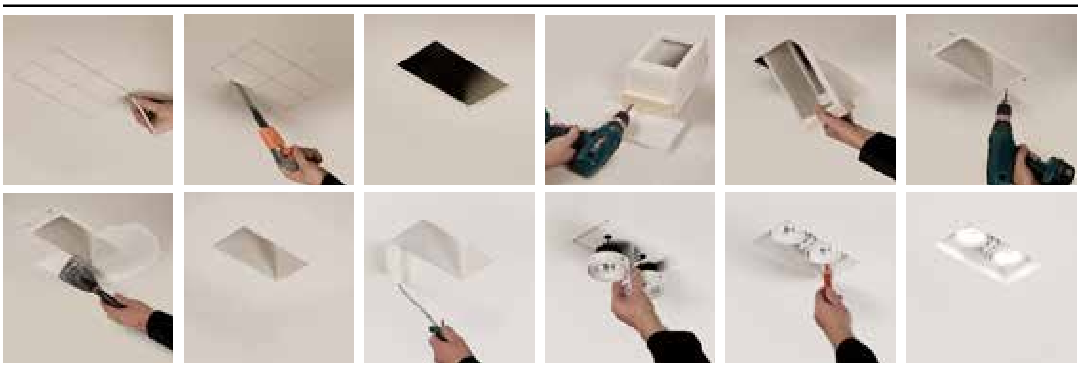
TYPE 7

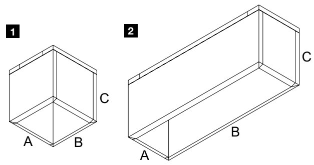
MOUNTING KIT



MOUNTING KIT	REFERENCE	A x B x C	KG	Hollow material (square)	Hollow material (round)	Hollow material (depth)	Solid material (round) min. - max.	Option/ Requirement O/R	TYPE
MOUNTING KIT 64	202 00 64	97 x 97 x 30	0.1		105	9 or 12		O	7
MOUNTING KIT 75	202 00 75	117 x 117 x 30	0.1		121	9 or 12		O	7
MOUNTING KIT 75 TRIMLESS	202 01 75	117 x 117 x 30	0.1		121	9 or 12		R	7
MOUNTING KIT 75 TRIMLESS O.F.A.	202 01 75 OFA	240 x 240 x 40	0.2				Ø182	R	10
MOUNTING KIT FLUSH	400 90 01	118 x 118 x 35	0.1		121	12		R	7
MOUNTING KIT FLUSH SPY	414 90 01	82 x 140 x 22	0.2		83	9 or 12	Ø82	O	10
MOUNTING KIT MIDISPY TRIMLESS	414 90 02	82 x 140 x 108	0.4		83	9 or 12	Ø82	R	10
MOUNTING KIT R60 TRIMLESS O.F.A.	415 91 60	155 x 155 x 60	0.4		92	max.25	Ø92 - 125	R	10
MOUNTING KIT R82 TRIMLESS	202 11 82	95 x 168 x 43	0.1		105	max.22		R	9
MOUNTING KIT R82 TRIMLESS O.F.A.	202 11 82 OFA	200 x 200 x 44	0.2		122	max.25	Ø122	R	10
MOUNTING KIT R102 TRIMLESS O.F.A.	400 91 02 OFA	195 x 195 x 55	0.4		133			R	10
MOUNTING KIT TWEETER TRIMLESS	202 15 61 971	214 x 125 x 70	0.6		152	max.25	Ø182	R	9
MOUNTING KIT GRAND REO TRIMLESS	202 39 60	185 x 130 x 30	0.3		133	12 or 16		R	3
MOUNTING KIT PINTOR 63 TRIMLESS	202 40 092	107 x 185 x 80	0.2			min.8		R	3
MOUNTING KIT PINTOR 90 TRIMLESS	202 40 115	114 x 230 x 80	0.3			min.8		R	3
MOUNTING KIT S102 TRIMLESS	400 92 00	125 x 220 x 55	0.2	125 x 125		min.11		R	1
MOUNTING KIT S102 TRIMLESS O.F.A.	400 92 00 O.F.A.	264 x 264 x 55	0.3	230 x 160				R	1
MOUNTING KIT SNEAK-R TRIMLESS	415 91 102	190 x 135 x 40	0.2		137	max.12	137	R	3
GRID IN TRIMLESS 1 MOUNTING KIT	202 61 95 01	171 x 171 x 55	0.4	173 x 173		max.25		O/R	1
GRID IN TRIMLESS 1 MOUNTING KIT HP	202 61 95 01 HP	171 x 171 x 55	0.4	173 x 173		max.25		R	1
GRID IN TRIMLESS 1 MOUNTING KIT LARGE	202 61 95 01L	293 x 293 x 55	0.7				Ø250	O/R	8
GRID IN TRIMLESS 2 MOUNTING KIT	202 61 95 02	171 x 310 x 55	0.7	312 x 173		max.25		O	2
GRID IN TRIMLESS 2 MOUNTING KIT HP	202 61 95 02 HP	171 x 310 x 55	0.7	312 x 173		max.25		R	2
GRID IN TRIMLESS 2 MOUNTING KIT LARGE	202 61 95 02L	432 x 293 x 55	0.9				Ø250 - 150 - Ø250*	O	8
MINIGRID IN 1 MOUNTING KIT	202 71 95 01	129 x 129 x 100	0.5	130 x 130		max.25		O/R	5
MINIGRID IN 1 MOUNTING KIT HP	202 71 95 01 HP	129 x 129 x 100	0.5	130 x 130		max.25		R	5
MINIGRID IN 1 MOUNTING KIT LARGE	202 71 95 01L	245 x 245 x 100	0.9				Ø202	O/R	8
MINIGRID IN 2 MOUNTING KIT	202 71 95 02	129 x 232 x 100	0.8	130 x 233		max.25		O	6
MINIGRID IN 2 MOUNTING KIT HP	202 71 95 02 HP	129 x 232 x 100	0.8	130 x 233		max.25		R	6
MINIGRID IN 2 MOUNTING KIT LARGE	202 71 95 02L	342 x 245 x 100	1.0				Ø202 - 100 - Ø202*	O	8
SUPERNOVA 125 RECESSED KIT	274 94 1310	Ø1325 x 115	4.6		1335	max.25		R	3
SUPERNOVA 65 RECESSED KIT	274 94 0710	Ø725 x 115	3.1		735	max.25		R	3
SUPERNOVA 95 RECESSED KIT	274 94 1010	Ø1025 x 115	3.1		1035	max.25		R	3
SUPERNOVA XS RECESSED KIT 260	274 88 029	Ø299 x 126	1.1		301	max.25		R	3
SUPERNOVA XS RECESSED KIT 330	274 88 036	Ø369 x 126	1.4		371	max.25		R	3
PITCH 162 RECESSED KIT	274 88 014	Ø168 x 61	0.5		184	max.25		O	3
SUPERDOME RECESSED KIT	321 96 1036	1210 x 1210 x 56	4.2	1105 x 1105		12		R	-
MOUNTING KIT INLET FLUSH	304 05 01	140 x 200 x 38	0.2	55 x 190				O	8

ZB BOX





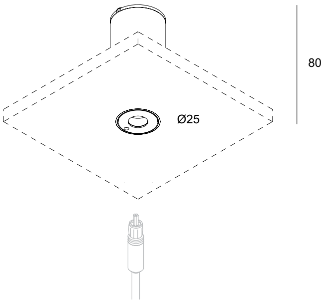
DEPTH MAY VARY ACCORDING TO THE LUMINAIRE USED.
ALWAYS CHECK THE CORRECT DEPTH OF THE LUMINAIRE.

ZB BOX	REFERENCE	A x B x C	KG	(square)	(depth)	(ceiling)	TYPE
GRID IN ZB 1 BOX L	202 60 98 01	183 x 183 x 128	1.7	184 x 184	148		1
GRID IN ZB 2 BOX L	202 60 98 02	183 x 336 x 128	2.4	184 x 337	148		2
MINIGRID IN ZB 1 BOX L	202 70 98 01	140 x 140 x 128	1.2	141 x 141	148		1
MINIGRID IN ZB 2 BOX L	202 70 98 02	140 x 250 x 128	1.8	141 x 251	148		2

tech

OPTIONS
INSTALLATION

JACKPOINT TRIMLESS

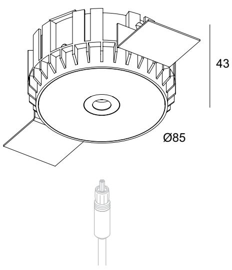


62 x 80 9 or 12
102 x 80 (CONCRETE)

JACKPOINT TRIMLESS O.F.A.
328 10 04
EXCL.1 x JAC*****
12

III 0,3 IP20

SETPOINT

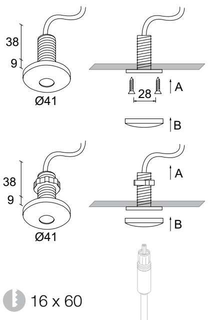


105 x 75 max.22

SETPOINT ◇
203 10 27 ◇
◇ = PRIM
EXCL.1 x JAC*****
12

III 0,3 IP20

JACKPOINT

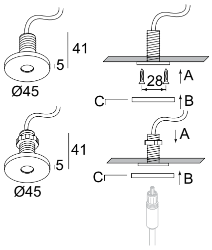


16 x 60

JACKPOINT ◇
203 10 01 ◇
◇ = A / B / W
EXCL.1 x JAC*****
12

III 0,1 IP20

FLATPOINT

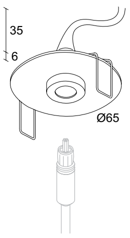


16 x 60

FLATPOINT ◇
203 10 06 ◇
◇ = ALU / W
EXCL.1 x JAC*****
12

III 0,1 IP20

DAXPOINT

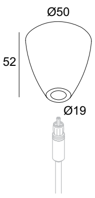


58 x 45 max.12

DAXPOINT ◇
203 10 03 ◇
◇ = A / B / W
EXCL.1 x JAC*****
12

III 0,1 IP20

SAX 1

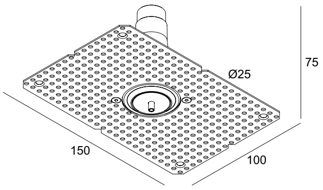


SAX 1 ◇
203 10 15 ◇
◇ = A / W
EXCL.1 x JAC*****

III 0,1 IP20

tech

SUSPENSION TRIMLESS



62 x 80 9 or 12
102 x 80 (CONCRETE)

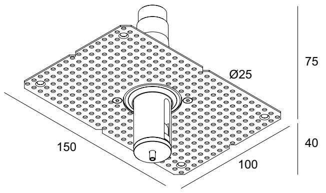
SUSPENSION TRIMLESS O.F.A.
328 10 01

INCL.1 x AUTOMATIC ADJUSTMENT

0,2

play.deltalight.com/suspensiontrimlessconcrete
play.deltalight.com/suspensiontrimlessplasterboard

SUSPENSION + CONNECTION TRIMLESS



62 x 80 9 or 12
102 x 80 (CONCRETE)

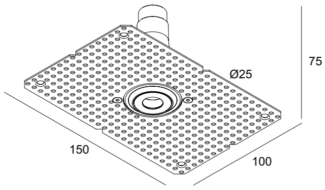
SUSPENSION + CONNECTION TRIMLESS O.F.A.
328 10 02

INCL.1 x CONNECTOR max. 3x 2,5 mm^2
INCL.1 x AUTOMATIC ADJUSTMENT
4A / 250V

0,2

play.deltalight.com/suspensiontrimlessconcrete
play.deltalight.com/suspensiontrimlessplasterboard

CONNECTION TRIMLESS



62 x 80 9 or 12
102 x 80 (CONCRETE)

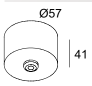
CONNECTION TRIMLESS O.F.A.
328 10 03

INCL.1 x CONNECTOR max. 3x 2,5 mm^2
4A / 250V

0,2

play.deltalight.com/suspensiontrimlessconcrete
play.deltalight.com/suspensiontrimlessplasterboard

CABLE BASE R

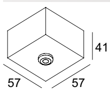


CABLE BASE R ◇
203 99 55 ◇
◇ = ANO / B / W

0,1

OPTIONS
COVERSET R 62-90-100

CABLE BASE S

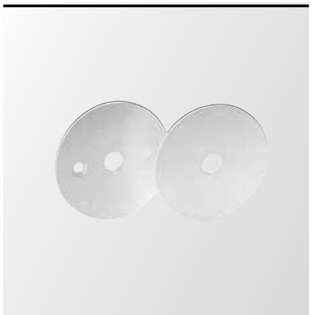


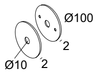
CABLE BASE S ◇
203 99 56 ◇
◇ = ANO / B / W

0,1

OPTIONS
COVERSET S 62-80-90

COVERSET R





COVERSET R 100 ◇
204 00 100 ◇

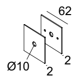
COVERSET R 62 ◇
204 00 62 ◇

COVERSET R 90 ◇
204 00 90 ◇

◇ = ANO / B / W

0,1

COVERSET S



COVERSET S 62 ◇
204 62 62 ◇

COVERSET S 80 ◇
204 80 80 ◇

COVERSET S 90 ◇
204 90 90 ◇

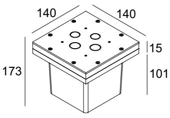
◇ = ANO / B / W

0,1

tech

OPTIONS
INSTALLATION

CBOX



142 x 142 x 300

CBOX
216 12 00
INCL.2 x PG13,5 / 1 x PG11

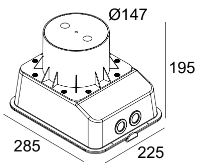
0,5 IP67

142 x 142 x 300

CBOX 350 mA / 10W
216 14 35
INCL.2 x PG13,5 / 2 x PG11
INCL.LED POWER SUPPLY 350mA-DC / 10W
CURRENT CONTROLLED
220-240V / 50-60Hz

0,7 IP67

LOGIC R OK BOX

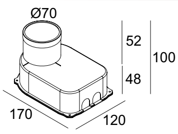


290 x 230 x 215

LOGIC R OK BOX
213 50 10
INCL.1 x BASE PLATE
EXCL.TRANSFO
max.500kg

0,6

LOGIC 60 BOX R

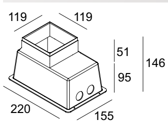


175 x 125 x 105

LOGIC 60 BOX R
213 19 10
INCL.1 x BASE PLATE
EXCL.TRANSFO
max.500kg

0,6

GENIE BOX 80 S / 90 S



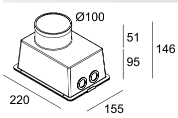
224 x 159 x 155

GENIE BOX 80 S / 90 S
213 19 08

INCL.1 x BASE PLATE
EXCL.TRANSFO
max.500kg

0,6

GENIE BOX 90 R



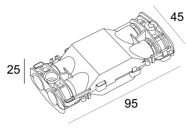
224 x 159 x 150

GENIE BOX 90 R
213 19 09

INCL.1 x BASE PLATE
EXCL.TRANSFO
max.500kg

0,6

IP68 CONNECTION KIT

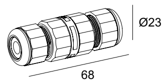


IP68 CONNECTION KIT
216 12 01

CABLE Ø7,5-10 mm
MAX.3 x 4mm^2
4A 250V

0,1 IP68

IP68 CONNECTOR 3P



IP68 CONNECTOR 3P
216 12 02

CABLE Ø7,5-12 mm
MAX.3 x 1,5mm^2
4A 250V

0,1 IP68

play.deltalight.com/ip68connector

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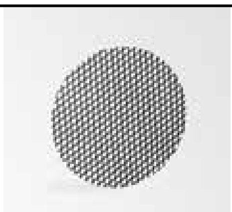
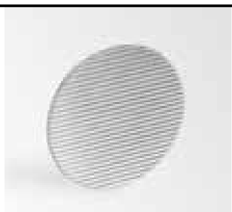
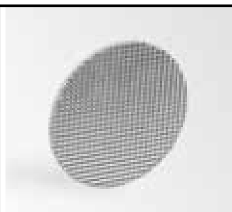
ACCESSORIES

LIGHT BEAM ACCESSORIES

ACCESSORIE 0,1	 **HONEYCOMB**	 **LINEAR SPREAD LENS**	 **SPREAD LENS**	 **SOFTENING LENS**	 **GLASS SBL**
LIGHT BEAM					
Ø32	**MINI REO HONEYCOMB ◇** **415 03 01 ◇** ◇ = B / W			**MINI REO SOFTENING LENS ◇** **415 03 04 ◇** ◇ = B / W	**MINI REO GLASS SBL ◇** **415 03 05 ◇** ◇ = B / W
Ø40	**HONEYCOMB 40 ◇** **201 03 01 ◇** ◇ = ALU / B	**LINEAR SPREAD LENS 40** **201 03 02**	**SPREAD LENS 40** **201 03 03**	**SOFTENING LENS 40** **201 03 04**	**GLASS SBL 40** **201 03 05**
	BOXY HONEYCOMB ◇ **251 70 03 01 ◇** ◇ = B / W			**BOXY SOFTENING LENS ◇** **251 70 03 04 ◇** ◇ = B / W	**BOXY GLASS SBL ◇** **251 70 03 05 ◇** ◇ = B / W
Ø50	**iMAX HONEYCOMB ◇** **400 03 01 ◇** ◇ = B	**iMAX LINEAR SPREAD LENS** **400 03 02**	**iMAX SPREAD LENS** **400 03 03**	**iMAX SOFTENING LENS** **400 03 04**	**iMAX GLASS SBL** **400 03 05**
	HONEYCOMB 50 ◇ **413 03 01 ◇** ◇ = B	**LINEAR SPREAD LENS 50** **413 03 02**	**SPREAD LENS 50** **413 03 03**	**SOFTENING LENS 50** **413 03 04**	**GLASS SBL 50** **413 03 05**
					GLASS SBL 50 **201 30 05**
Ø70	**HONEYCOMB 70 ◇** **201 04 01 ◇** ◇ = B	**LINEAR SPREAD LENS 70** **201 04 02**	**SPREAD LENS 70** **201 04 03**	**SOFTENING LENS 70** **201 04 04**	**GLASS SBL 70** **201 04 05**
	HONEYCOMB KIX ◇ **232 10 03 ◇** ◇ = N				
Ø72	**HONEYCOMB 72 ◇** **201 05 01 ◇** ◇ = B			**SOFTENING LENS 72** **201 05 04**	
Ø74	**HONEYCOMB 74 ◇** **414 04 01 ◇** ◇ = B			**SOFTENING LENS 74** **414 04 04**	
Ø78	**HONEYCOMB 78 ◇** **201 02 01 ◇** ◇ = B			**SOFTENING LENS 78** **201 02 04**	**GLASS SBL 78** **201 02 05**
Ø111	**HONEYCOMB 111 ◇** **201 06 01 ◇** ◇ = B	**LENS 111** **201 47 11**		**SOFTENING LENS 111** **201 06 04**	

Find out what products these accessories can be used with, by adding its reference number without colour to our website URL to visit the detailpage: for example: **www.deltalight.com/2010301**

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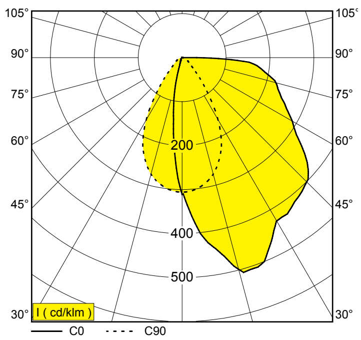
PHOTOMETRICS

Apart from the lumen output and the power it consumes, a luminaire is characterized by its luminous distribution. At Delta Light® we have the knowledge and infrastructure in-house to determine those characteristics of the luminous distribution.

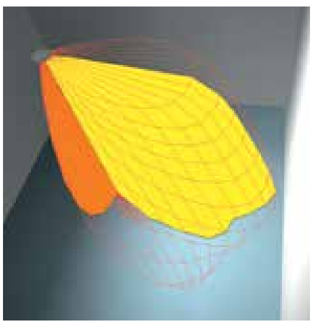
Polar diagram

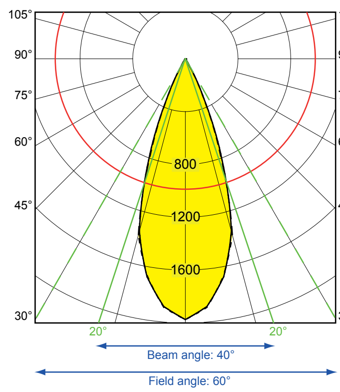
The luminous distribution of a luminaire is shown in a polar diagram, which is a two-dimensional representation of a three-dimensional measurement of the luminaire by the photogoniometer. The curve on this diagram tells us the direction whereto the light is being emitted, together with the luminous intensity of the light in the different directions, in function of the viewing angle in different planes. The C0-plane is represented by a full line and indicates the luminous distribution of the luminaire, perpendicular to the light source's longitudinal axis. In case of round or square shaped luminaires where no longitudinal axis can be determined, the C0-plane indicates the main direction of the light being emitted
The C90-plane is represented by a dashed line and indicates the light distribution along the longitudinal axis.
On the diagram each circle represents a value of the light intensity and is expressed in candela per kilolumen (cd/klm). The circles are divided in angles that indicate the direction of the light intensity.



As an example we have the polar diagram of the Sneak-R on the left. The C0-plane shows that almost all of the light is emitted forward and only a small amount of light is emitted backwards (full curve lies between -15° and 90° in the C0-plane). As the curve does not exceed the 90° line, it means that no light is emitted upwards. The peak of the curve is around 15° and shows a value of over 500 cd/klm. On the C90-plane we see a symmetrical curve between -35° and 35° with a peak at 0° and a value of 300 cd/klm.

Up-to-date photometrics of the luminaires mentioned in Lighting Bible 12® are available on the website. Photometrics on the new luminaires will be available in the upcoming months.





Beam angle

Important to know is how 'beam angle' exactly is defined? It is the degree of width of the light that is emitted by a light source and it is determined by the angle between the 2 points on an axis where the intensity of the light drops down to 50% of the maximum light intensity (I_{max}) of the light source.
This 50% of I_{max} determines from which point the light fades and from where the human eye will consider the light as being spill light. The human eye will particularly see the inner circle as highlight, also known as the half value angle or beam angle, whereas the outer circle is known as the field angle.
The example on the right has an I_{max} of 2000 cd/klm. By taking half of this value (1000 cd/klm) and intersecting the curve, we can determine the beam angle, which is 40°. The outer lines of the curves determine the field angle, which is in this case 60°.

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LAMP INDEX

LIGHTSOURCE	LAMP	FITTING	VOLTAGE	OUTPUT (W)
	A60	E27Ls	100-240V / 50-60Hz	15-25-40-60
	QR-51 ALU	GX5.3	12V	20-35-50
	QR-C51	GX5.3	12V	20-35-50
	QR-CBC51	GX5.3	12V	20-35-50
	QR-CB51	GX5.3	12V	20-35-50
	QR-LP70	BA15d	12V	20-50
	QR-LP111	G53	12V	35-50-75-100
	QT14	G9	100-240V / 50-60Hz	25-40-60
	QPAR51	GU10	100-240V / 50-60Hz	35-50
	T16	G5	220-240V / 50-60Hz	8 14-21-28-35 24-39-49-54-80
	TC-L	2G11	220-240V / 50-60Hz	24-36-55
	T2-MLF	GX53	220-240V / 50-60Hz	9
	TC-TSE	E27Ls	100-240V / 50-60Hz	15-20-23
	TCA-SE	E27Ls	100-240V / 50-60Hz	5-7-10-15-20-23
	TC-SB	E27Ls	100-240V / 50-60Hz	9-12-16

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LEGENDA

	KLEUR	COULEUR	COLOUR	FARBE	Colour	ColourE
A	ALU GRIJS	ALU GRIS	ALU GREY	ALU GRAU	ALU GRIS	ALU GRIGIO
ALU	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIO	ALUMINIO
ANO	GEANODISEERD ALU	ALU ANODISE	ALU ANODISED	ALU ELOXIERT	ALU ANODIZADO	ALU ANODIZZATO
B	ZWART RAL 9005	NOIR RAL 9005	BLACK RAL 9005	SCHWARZ RAL 9005	NEGRO RAL 9005	NERO RAL 9005
C	CHROOM	CHROME	CHROMED	CHROM	CROMO	CROMATO
G	GRIJS BRUIN	GRIS BRUN	GREY BROWN	GRAU BRAUN	GRIS MARRON	GRIGIO BRUNO
INOX	ROESTVRIJ STAAL	ACIER INOXYDABLE	STAINLESS STEEL	ROSTFREIER STAHL	ACERO INOXIDABLE	ACCIAIO INOSSIDABILE
M	VERGULD	DORE	GOLD	VERGOLDET	ORO	ORO
N	DONKERGRIJS	GRIS FONCE	DARK GREY	DUNKELGRAU	GRIS OSCURO	GRIGIO SCURO
MMAT	VERGULD MAT	LAITON DEPOLI	GOLD MAT	VERGOLDET MAT	ORO MATE	ORO OPACO
SG	ZILVERGRIJS	GRIS ARGENTÉ	SILVER GREY	SILBER GRAU	GRIS PLATEADO	GRIGIO ARGENTO
PRIM	GRONDLAAG	APPRET	PRIMER	GRUNDIERUNG	PINTURA DE FONDO	MESTICA
RAL	KLEUR RAL	COULEUR RAL	COLOUR RAL	FARBE RAL	Colour RAL	ColourE RAL
W	WIT RAL 9003	BLANC RAL 9003	WHITE RAL 9003	WEIß RAL 9003	BLANCO RAL 9003	BIANCO RAL 9003
	SCHILDEREN VEREIST	PEINTURE DE FINITION REQUISE	PAINT FINISH REQUIRED	LACKIERUNG ERFORDERLICH	ACABADO DE PINTURA NECISARIO	NECESSITA DI FINITURA
I	TOESTEL KLASSE 1	APPAREIL CLASSE 1	FIXTURE CLASS 1	GERÄT KLASSE 1	APARATO CLASE 1	APPARECCHIO CLASSE 1
	TOESTEL KLASSE 2	APPAREIL CLASSE 2	FIXTURE CLASS 2	GERÄT KLASSE 2	APARATO CLASE 2	APPARECCHIO CLASSE 2
III	TOESTEL KLASSE 3	APPAREIL CLASSE 3	FIXTURE CLASS 3	GERÄT KLASSE 3	APARATO CLASE 3	APPARECCHIO CLASSE 3
CE	NORM 01.96 EMC 89 / 336 / EEC	NORM 01.97. LV 73 / 23 / EEC	NORM 01.97. LV 73 / 23 / EEC	NORM 01.97. LV 73 / 23 / EEC	NORM 01.97. LV 73 / 23 / EEC	NORM 01.97. LV 73 / 23 / EEC
0,5	NETTO GEWICHT KG	POIDS NET KG	NET WEIGHT KG	NETTO GEWICHT KG	PESO NETO KG	PESO NETTO KG
IP	BESCHERMINGSINDICATIE	INDICE DE PROTECTION	PROTECTION LEVEL	SCHUTZKLASSE	CLASE DE PROTECCIÓN	CLASSE DI PROTEZIONE
IK06 IK07 IK08	MECHANISCHE IMPACT	IMPACT MÉCANIQUE	MECHANICAL IMPACT	MECHANISCHE EINWIRKUNG	IMPACTO MECÁNICO	URTO MECCANICO
	RONDE OPENING DIAMETER x MIN.INBOUWDIEPTE	DECOUPE RONDE DIAMETRE x PROFONDEUR NECESSAIRE POUR ENCASTREMENT	ROUND OPENING DIAMETER x MIN. DEPTH FOR RECESSING	RUNDE ÖFFNUNG DIAMETER x MIN. TIEFE FÜR EINBAU	ABERTURA REDONDA DIAMETRO x DISTANCIA MINIMA DE EMPOTRAMIENTO	FORO TONDO DIAMETRO x SPESSORE MINIMO RICHIESTO PER L'INCASSO
	RECHTHOEKIGE OPENING LENGTE x BREEDTE x MIN.INBOUWDIEPTE	DECOUPE RECTANGULAIRE LO.x LA.x PRO. NECESSAIRE POUR ENCASTREMENT	RECTANGULAR OPENING LENGTH x WIDTH x MINIMUM DEPTH FOR RECESSING	RECHTECKIGE ÖFFNUNG LÄNGE x BREITE x MINIMUM TIEFE EINBAU	ABERTURA RECTANGULAR LARGO x ANCHO x DISTANCIA MINIMA DE EMPOTRAMIENTO	FORO RETTANGOLARE LUNGHEZZA x LARGHEZZA x SPESSORE MINIMO RICHIESTO PER L'INCASSO
	MAX. DIKTE MONTAGEOPPERVLAK	EPAISSEUR MAX. DE LA SURFACE DE MONTAGE	MAX.THICKNESS OF THE MOUNTING SURFACE	MAXIMALE STÄRKE DER BEFESTIGUNGSFLÄCHE	ESPESOR MÁXIMO DE LA SUPERFICIE DE MONTAJE	SPESSORE MASSIMO DELLA SUPERFICIE DI MONTAGGIO
0,5	MIN. AFSTAND (M) LAMP - OBJECT	DISTANCE MIN. (M) AMPOULE - OBJET	MIN. DISTANCE (M) LAMP - OBJECT	MIN. DISTANZ (M) LAMPE - OBJEKT	DISTANCIA MINIMA (M) LÁMPARA - OBJETO	DISTANZA MIN. (M) LAMPADA - OGGETTO
	BEVESTIGING VLOER - WAND - PLAFOND OPBOUW	MONTAGE SOL - MUR - PLAFOND APPLIQUE	FIXATION FLOOR - WALL - CEILING SURFACE MOUNTED	MONTAGE BODEN - WAND - DECKE AUFGEBAUT	MONTAJE SUELO - PARED - TECHO MONTADO AL SUPERFICIE	MONTAGGIO PAVIMENTO-PARETE - SOFFITTO MONTATO A SUPERFICIE
	BEVESTIGING VLOER - WAND - PLAFOND INBOUW	MONTAGE SOL - MUR - PLAFOND ENCASTRE	FIXATION FLOOR - WALL - CEILING RECESSED	MONTAGE BODEN - WAND - DECKE EINGEBAUT	MONTAJE SUELO - PARED-TECHO EMPOTRADO	MONTAGGIO PAVIMENTO-PARETE - SOFFITTO-INCASSO
	BEVESTIGING PLAFOND GEPENDELD	MONTAGE PLAFOND SUSPENDU	FIXATION CEILING SUSPENDED	MONTAGE DECKE GEPENDELT	MONTAJE TECHO SUSPENDIDO	MONTAGGIO SOFFITTO SOSPESO
	STAND ALONE	STAND ALONE	STAND ALONE	STAND ALONE	STAND ALONE	STAND ALONE

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	GESCHIKT VOOR BINNEN- EN BUITENGEBRUIK	CONVIENT A USAGE INTERIEUR ET EXTERIEUR	SUITABLE FOR INDOOR AND OUTDOOR USE	EIGNET SICH FUR INNEN- UND AUßENBEREICH	APTO PARA USO INTERIOR Y EXTERIOR	PER UTILIZZO SIA IN IN INTERNI CHE DA ESTERNI
S1	VEREN VOOR HOLLE WAND	RESSORTS PRECONISES POUR FAUX-PLAFONDS	SPRINGS FOR HOLLOW SURFACES	FEDERN FÜR HOHL RAUMDECKE	MUELLES PARA UTILIZAR EN FALSOS TECHOS DE ESCAYOLA Y PLADUR	SISTEMA DI FISSAGGIO PER CONTRO-SOFFITTI IN LASTRE O PANNELLI
S2	VEREN VOOR VOLLE WAND	RESSORTS PRECONISES POUR PLAFONDS STANDARDS	SPRINGS FOR SOLID SURFACES	FEDERN FÜR VOLL MATERIAL	MUELLES PARA UTILIZAR EN HORMIGON	SISTEMA DI FISSAGGIO PER VANI CHIUSI REALIZZATI NELLA MURATURA
EVG	ELEKTRONISCHE VOORSCHAKELAPPARATUUR	BALLAST ELECTRONIQUE	ELECTRONIC BALLAST	ELEKTRONISCHES VORSCHALTGERÄT	BALASTRO ELECTRONICO	REATTORE ELETTRONICO
EVG DIMMABLE	DIMBAAR ELEKTRONISCHE VOORSCHAKELAPPARATUUR	BALLAST ELECTRONIQUE DIMMABLE	ELECTRONIC DIMMABLE BALLAST	ELEKTRONISCHES DIMBARES VORSCHALTGERÄT	BALASTRO ELECTRONICO REGULABLE	REATTORE ELETTRONICO DIMMERABILE
λ	LAMBDA = 0,9	LAMBDA = 0,9	LAMBDA = 0,9	LAMBDA = 0,9	LAMBDA = 0,9	LAMBDA = 0,9
1-10V	DIMBAAR 1-10V	VARIATION 1-10V	DIMMABLE 1-10V	DIMBAR 1-10 V	REGULABLE 1-10V	DIMMERABILE 1-10V
DALI	DALI DIMBAAR	VARIATION DALI	DIMMABLE DALI	DIMBAR DALI	REGULABLE DALI	DIMMERABILE DALI
FE	DIMBAAR FASE AFSNIJDING	COUPE PHASE DESCENDANTE	FALLING EDGE DIMMABLE	PHASENABSCHNITT DIMMUNG	REGULACION DE CORTE DESCENDENTE	REGOLAZIONE CON DIMMER A TAGLIO DI FASE
MDL	MODULATION DIM LOW-VOLTAGE	MODULATION DIM LOW-VOLTAGE	MODULATION DIM LOW-VOLTAGE	MODULATION DIM LOW-VOLTAGE	MODULATION DIM LOW-VOLTAGE	MODULATION DIM LOW-VOLTAGE
WDL	WIRELESS DIM LOW VOLTAGE	WIRELESS DIM LOW VOLTAGE	WIRELESS DIM LOW VOLTAGE	WIRELESS DIM LOW VOLTAGE	WIRELESS DIM LOW VOLTAGE	WIRELESS DIM LOW VOLTAGE
NON DIM	NIET DIMBAAR	NON DIMMABLE	NON DIMMABLE	NICHT DIMBAR	NO REGULABLE	NON DIMMERABILE
	GESCHIKT VOOR TOEPASSING IN BADKAMERS (**)	APPLICABLE POUR SALLES DE BAINS (**)	SUITABLE FOR USE IN BATHROOM (**)	GEEIGNET FÜR INSTALLATION IM BADEZIMMER (**)	ILUMINACIÓN APTO PARA USO EN BAÑOS (**)	ILLUMINAZIONE ADATTA PER L'AMBIENTE BAGNO (**)
SOFT DIM	PAG TEC 13	PAG TEC 13	PAG TEC 13	PAG TEC 13	PAG TEC 13	PAG TEC 13
CTRL DELTA IN, CTRL DELTA R, CTRL DELTA C	PAG TEC 4	PAG TEC 4	PAG TEC 4	PAG TEC 4	PAG TEC 4	PAG TEC 4
SMART IN	PAG TEC 7	PAG TEC 7	PAG TEC 7	PAG TEC 7	PAG TEC 7	PAG TEC 7
	BEWEGINGS DETECTIE	DÉTECTION DE PRÉSENCE	PRESENCE DETECTION	PRÄSENZMELDER	DETECTOR DE PRESENCIA	RILEVATORE DI PRESENZA
2700 4000 K	TUNABLE WHITE	TUNABLE WHITE	TUNABLE WHITE	TUNABLE WHITE	TUNABLE WHITE	TUNABLE WHITE
SBL	GEZANDSTRAALD	SABLE	SANDBLASTED	GESANDSTRAHLTES	SATINADO	SATINATO
ESG	VEILIGHEIDSGLAS	VERRE DE SECURITE	SAFETY GLASS	EINSCHEIBEN SICHERHEITSGLAS	CRISTAL DE SEGURIDAD	VETRO DI SICUREZZA
95	AFMETINGEN IN MM	DIMENSIONS EN MM	DIMENSIONS IN MM	ABMESSUNGEN IN MM	DIMENSIONES EN MM	DIMENSIONI IN MM
TOL.DIN	TOLERANTIE VOLGENS DIN-NORMEN	TOLERANCE CONFORME AUX NORMES DIN	TOLERANCE ACCORDING TO DIN-SPECIFICATIONS	TOLERANZ NACH DIN-NORMEN	TOLERANCIA SEGUN LAS NORMAS DIN	TOLLERANZE A NORME DIN
DIN EN12020-2	TOLERANTIES EXTRUSIE	TOLERANCES EXTRUSION	TOLERANCES EXTRUSION	TOLERANZEN EXTRUSION	TOLERANCIA EXTRUSION	TOLLERANZA ESTRUSIONE
DIN 17.611	TOLERANTIES ANODISATIE	TOLERANCES ANODISATION	TOLERANCES ANODISATION	TOLERANZEN ELOXIERUNG	TOLERANCIA ANODIZADO	TOLLERANZA ANODIZZATO
DIN 55.928	TOLERANTIES LAKWERK	TOLERANCES LAQUAGE	TOLERANCES COATING	TOLERANZEN LACKIERUNG	TOLERANCIA LACA	TOLLERANZA LACCA

PRODUCT DESIGN AWARD INDUSTRIE FORUM HANNOVER MESSE

PRODUCT DESIGN PLUS AWARD FRANKFURT

LIGHTS OF THE FUTURE AWARD

BEST PRODUCT AWARD DESIGN BRUSSELS

DESIGNPREIS NOMINEE

RED DOT DESIGN AWARD

Interior Innovation Award

Good Design Award

Green Good Design Award

German Design Award

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IT IS PARTICIPATING IN THE CB SCHEME SINCE IT IS ACCREDITED AS A CERTIFICATION BODY FOR THE CERTIFICATION OF PRODUCTS ACCORDING TO EN 45011 AND THE CERTIFICATION OF QUALITY SYSTEMS ACCORDING TO THE STANDARD EN 45012.

(**) CHECK COMPLIANCE WITH LOCAL REGULATIONS.

PRODUCTS MANUFACTURED ACCORDING TO IEC/EN 60598-1 AND THE APPLICABLE SECTIONS OF IEC/EN 60598-2

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FIONA LYNCH