

1.5" ProTools Downlights

driver information



Please refer to driver manufacturer’s website for current data sheets and wiring guidelines.

	DRIVER PART NUMBER	DRIVER WATTAGE	CONTROL PROTOCOL	DIMMING LEVEL	FIXTURES PER DRIVER	HOUSING [INTEGRAL]*	HOUSING [REMOTE]
INTEGRAL	S010	22W	0-10V	1%	1 -- 2	NC - IC - CP	-
	D010	22W	0-10V	0.1%	1 -- 2	NC - IC - CP	-
	SPH	20W	Triac / ELV	3%	1 -- 2	NC - IC - CP	-
	PEQ0	20W	EcoSystem	0.1%	1 -- 2	NC - IC - CP	-
	D2S	22W	DALI-2 (DT6)	0.1%	1 -- 2	NC - IC - CP	-
REMOTE	RS010	22W	0-10V	1%	1 -- 2	-	X - LP - IC - CP
		50W	0-10V	1%	1 -- 3	-	X - LP - IC - CP
		100W	0-10V	1%	1 -- 6	-	X - LP - IC - CP
	RD010	22W	0-10V	0.1%	1 -- 2	-	X - LP - IC - CP
		50W	0-10V	0.1%	1 -- 4	-	X - LP - IC - CP
		100W	0-10V	0.1%	1 -- 8	-	X - LP - IC - CP
	RSPH	20W	Triac / ELV	3%	1 -- 2	-	X - LP - IC - CP
	RPEQ0	20W	EcoSystem	0.1%	1 -- 2	-	X - LP - IC - CP
	RD2S	22W	DALI-2 (DT6)	0.1%	1 -- 2	-	X - LP - IC - CP
		50W	DALI-2 (DT6)	0.1%	1 -- 4	-	X - LP - IC - CP
		100W	DALI-2 (DT6)	1%	1 -- 6	-	X - LP - IC - CP

* Please note that Integral drivers available for NC / IC / CP housings require an accessible ceiling.

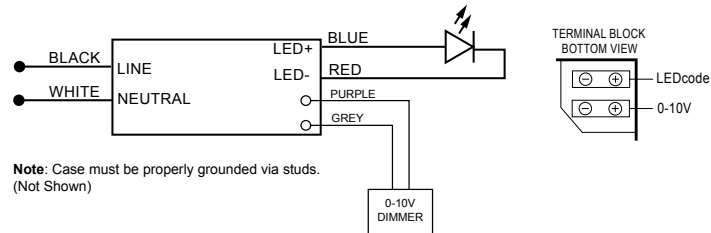


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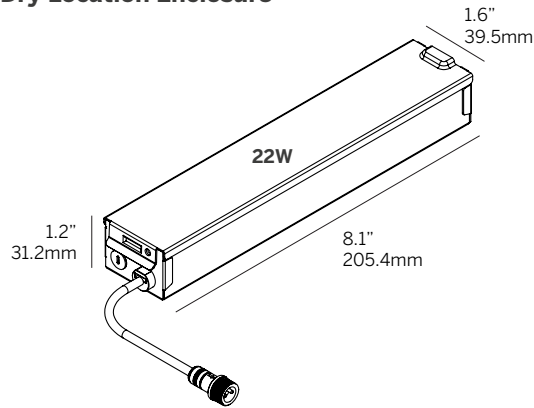
driver information

S010/RS010 = eldoLED 0-10V 1% dimming, 120-277V

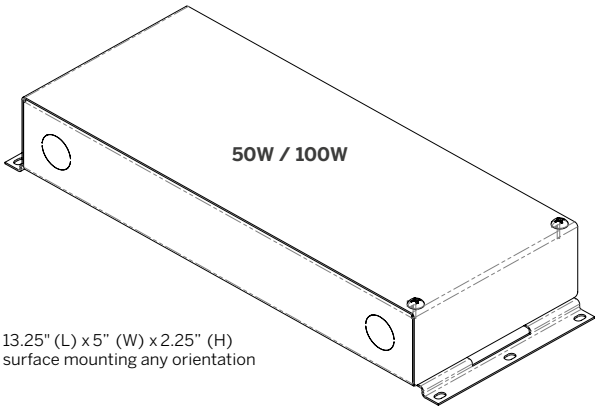
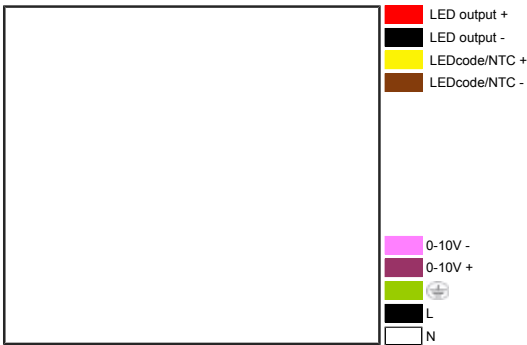
22W [spec sheet](#)



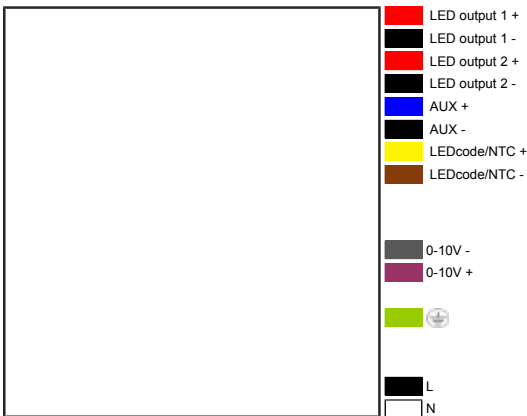
Dry Location Enclosure



50W [spec sheet](#)



100W [spec sheet](#)



Wire gauge	Maximum wiring distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

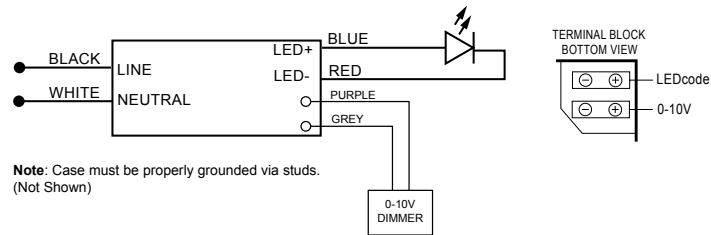
¹Actual distance must be calculated by installer. Must comply with NEC code.

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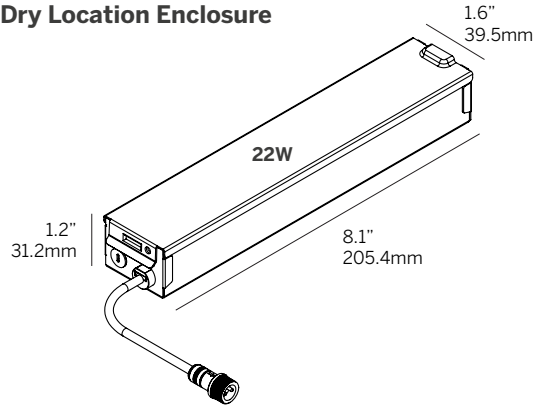
driver information

D010/RD010 = eldoLED 0-10V 0.1% dimming, 120-277V

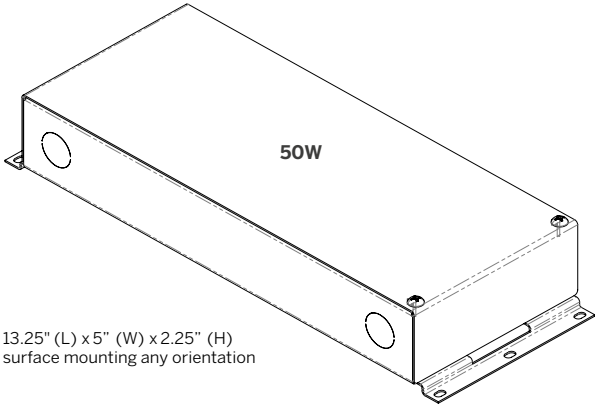
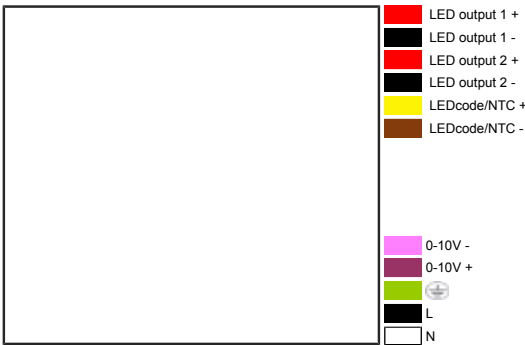
22W [spec sheet](#)



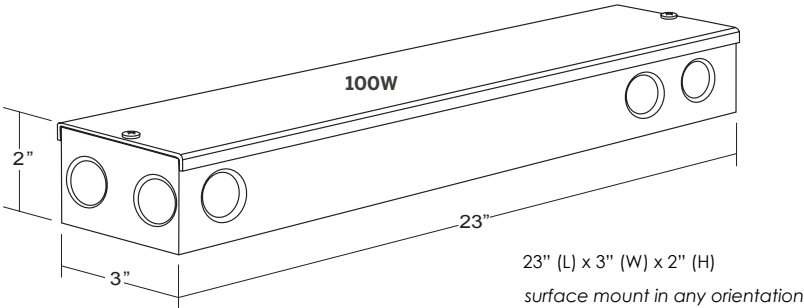
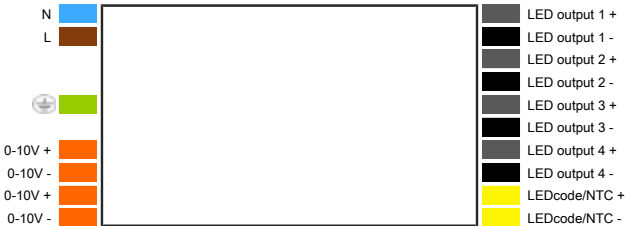
Dry Location Enclosure



50W [spec sheet](#)



100W [spec sheet](#)



Wire gauge	Maximum wiring distance ¹
AWG 20 (0.52 mm²)	46 ft (14 m)
AWG 19 (0.65 mm²)	59 ft (18 m)
AWG 18 (0.82 mm²)	72 ft (22 m)
AWG 17 (1.04 mm²)	92 ft (28 m)
AWG 16 (1.31 mm²)	118 ft (36 m)

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driver information

Compatible 0-10V dimmers and switches*

DIMMER MANUFACTURER	WEBSITE	TYPE	RECOMMENDED DIMMING CURVE
Busch-Jaeger	www.busch-jaeger.de	2112U-101	Logarithmic
Jung	www.gb.jung.de	240-10	Logarithmic
Leviton Lighting Controls	www.leviton.com	IlumaTech - IP710-DLX	Logarithmic
Lightolier Controls	www.lightolier.com	ZP600FAM120	Logarithmic
Lutron Electronics	www.lutron.com/LEDtool	Nova T - NTFTV Diva - DVTV Diva - NFTV	Linear Linear Linear
Merten	www.merten.de	5729	Logarithmic
Pass & Seymour	www.legrand.us	CD4FB-W	Logarithmic
The Watt Stopper	www.wattstopper.com	DCLV1	Logarithmic
Sensor Switch	www.sensorswitch.com	nIO EZ	Linear
Synergy	www.synergylightingcontrols.com	ISD BC	Logarithmic

Compatible 0-10V dimming control systems*

CONTROL MANUFACTURER	WEBSITE	TYPE	RECOMMENDED DIMMING CURVE
Lutron Electronics	www.lutron.com/LEDtool	GraphicEye - GRX-TVI w GRX3503 Energy Savr Node - QSN-4T16-S TVM2 Module Linear	Linear Linear Linear
Crestron	www.crestron.com	GLX-DIMFLV8 GLXP-DIMFLV8 GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM L DIN-AO8 DIN-4DIMFLV4 CLS-EXP-DIMFLV CLCI-1DIMFLV2EX	Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic
ABB	www.abb.com/KNX	IlumaTech - IP710-DLX	Logarithmic

* Compatibility with dimmers and controls systems not included in the above can be verified upon request. Please contact us and provide data sheets for the specified dimmer or control system.

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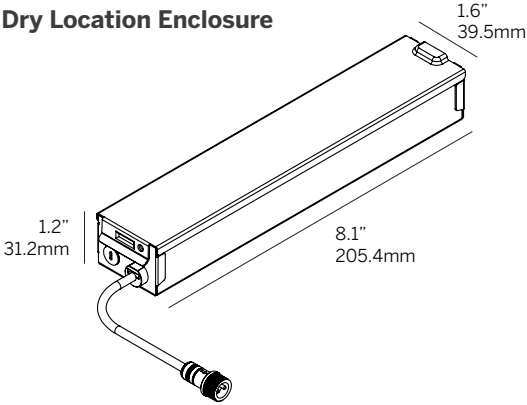
driver information

SPH/RSPH = Phase (2-wire) 3% dimming, 120V only (20W) [spec sheet](#)



Wire gauge	Maximum wiring distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
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AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

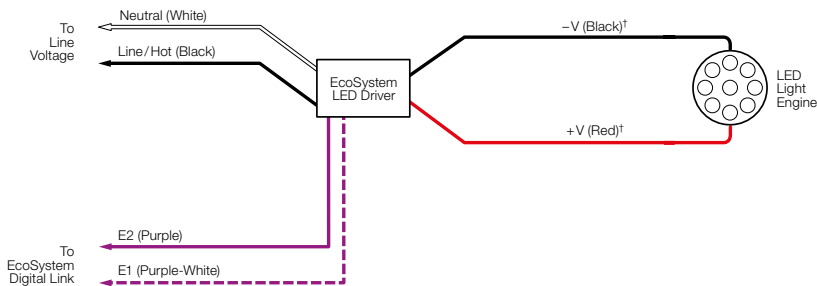
¹Actual distance must be calculated by installer. Must comply with NEC code.



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driver information

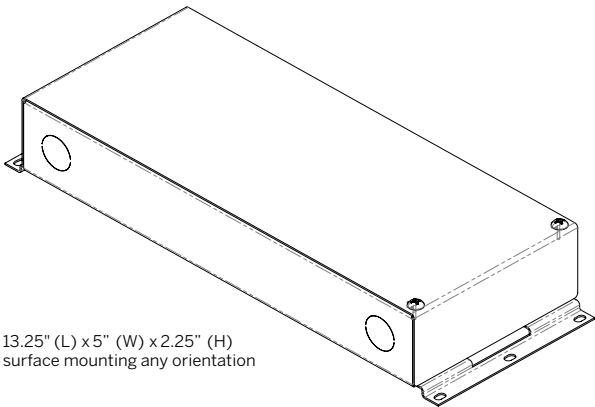
PEQ0/RPEQ0 = Lutron Hi-Lume Premier 0.1% EcoSystem dimming, 120-277V (20W) [spec sheet](#)



Wire gauge	Maximum lead length ¹
	150 mA to 700 mA
18 AWG (0.75 mm ²)	30 ft (9 m)
16 AWG (1.5 mm ²)	35 ft (10.5 m)
14 AWG (2.5 mm ²)	50 ft (15 m)
12 AWG (4.0 mm ²)	100 ft (30 m)

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Dry Location Enclosure



Compatible Controls for Lutron Hi-Lume Premier 0.1% EcoSystem, 120-277V

Lutron EcoSystem Compatible Controls	Part Number		Drivers per Control		
	120 V~	277 V~	EcoSystem Loops per Control	Drivers per EcoSystem Loop	Maximum Drivers per Control
PowPak Dimming Modules	RMJ-ECO32-DV-B		1	32	32
	FCJ/FCJS-ECO ¹		1	3	3
Energi Savr Node	QSN-1ECO-S	N/A	1	64	64
	QSN-2ECO-S		2	64	128
GRAFIK Eye QS / HomeWorks QS control unit	QSGRJ-_E (wireless) QSGR-_E	N/A	1	64	64
Quantum Hub	QP2-_ 2C	N/A	2	64	128
	QP2-_ 4C		4	64	256
	QP2-_ 6C		6	64	384
	QP2-_ 8C		8	64	512

¹ All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note #556 (048556) at www.lutron.com

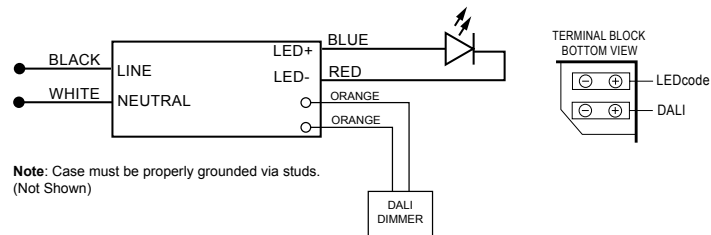
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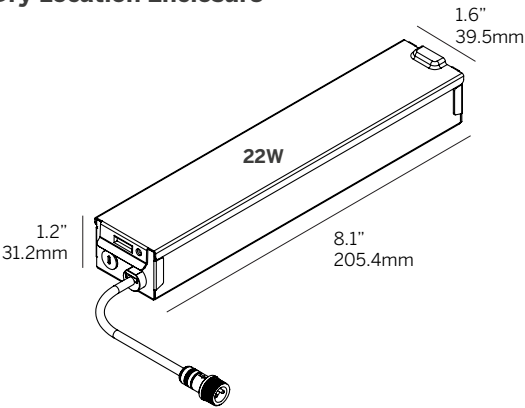


D2S/RD2S = DALI-2 (DT6) for Static White 0.1% dimming, 120-277V

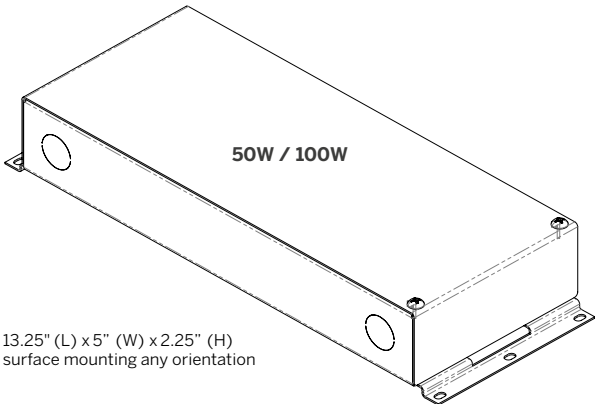
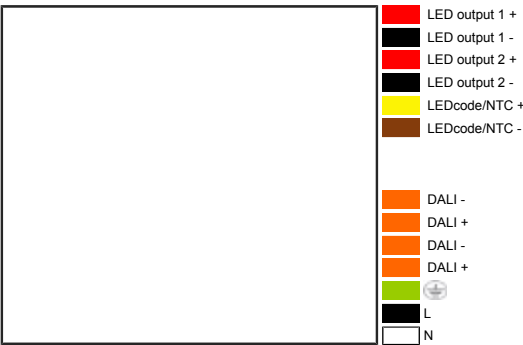
22W [spec sheet](#)



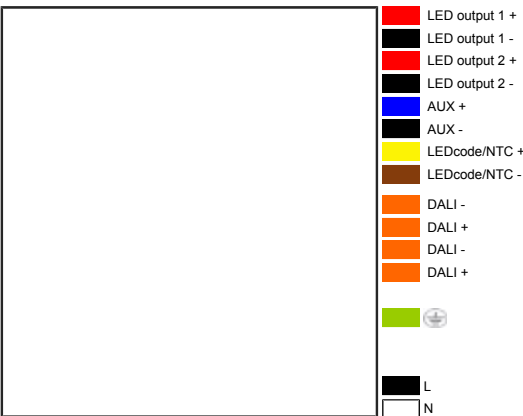
Dry Location Enclosure



50W [spec sheet](#)



100W [spec sheet](#)



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