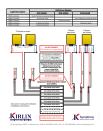


Submittal Package/Purchasing Guide Symphony 0-10V System







760263 AUGUST 2024 Symphony 0-10V Remote Driver Wiring Example6





CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

Symphony 0-10V Remote Driver Cabinet

SYM-CABNT: Driver Cabinet

- 24" x 18" x 4.5" carbon steel enclosure supports up to **8 Remote Driver Modules** (sold separately, see pages 3-4).
- Wall mounted enclosure fabricated from 14 gauge steel. Includes flat, removable cover fastened with plated steel screws. Cover design permits easy removal without extracting cover screws. Mounting holes on back of cabinet. Removable knockouts on all four sides.
- The <u>Symphony Configurator</u> can help determine the necessary components
- Certifications and Compliance: NEMA 1 rating, CSA, UL Listed.

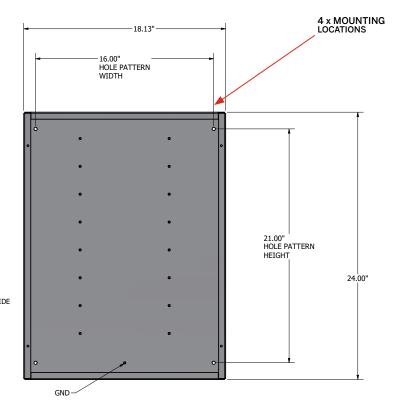


Specifications

Dimensions	24" (h) x 18" (w) x 4.5" (d)	
Weight	28 lb	
Color	Black	
Construction	Spot Welded	
Cover Type	Screw Cover	
Knockouts	Trade Sizes: 1/2"; 3/4"; 1" and 1-1/4"	
Listings	UL, CSA	
Material	Carbon Steel	
Mounting Method	Embossed Mounting Holes	
Mounting Type	Wall Mount	
NEMA Rating	NEMA 1	

-3 X 3/4" TRADE SIZE KNOCKOUT EACH SIDE -3 X 1/2" TRADE SIZE KNOCKOUT EACH SIDE





Dimensions



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CATALOG NUMBER

2

SYM-CABNT

760263 AUGUST 2024



CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

Symphony 0-10V Remote Driver Modules DVR-1400A/DVR-1050A/ **DVR-1400B**

Fully Digital Controlled Power Source for LED Luminaires

DVR-1400A: Driver Module

One module provides power and dimming control for:

- Up to two (2) 1500L Luminaires
- One (1) 2500L Luminaire
- 1/2 of a 5000L Luminaire (use 2 modules)
- 1/2 of a 6500L Luminaire (use 2 modules)

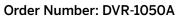
DVR-1050A: Driver Module

One module provides power and dimming control for:

One (1) 4000L Luminaire

Order Number: DVR-1400A







Must be used with Symphony 0-10V Driver Cabinet (SYM-CABNT).

Specifications DVR-1400A & DVR-1050A

Input Electrical Specifications (Per Installed DVR Module)

Nominal input voltage range AC	120 - 277V	
Absolute input voltage range AC	108 - 306V	
Input frequency range	50 - 60Hz	
Maximum wattage	50W	
Efficiency at full load	85%	
Power factor at full load	> 0.95	
THD at full load	< 20%	
Maximum inrush current	< 200mA²s @ 120V / 60Hz < 200mA²s @ 277V / 60Hz	
Surge protection	2kV differential mode (DM) 2kV common mode (CM)	
Maximum standby power	0.5W	

Environmental Conditions

Operating ambient temperature (Ta) Range		
Module -20°C to +50°C		
Acoustic noise - steady state	< 24dBa (Class A)	
All components	Dry location only	

Dimming Control

Control protocol	0-10V
Dimming range	100% - 0.1%, off
Dimming curve	Linear

Remote Mounting Distance

Max. distance

250 feet



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CATALOG NUMBER DVR-1400A DVR-1050A **DVR-1400B**



Symphony 0-10V Remote Driver Modules

Symphony 0-10V Remote Driver Modules

DVR-1400B

Fully Digital Controlled Power Source for LED Luminaires

DVR-1400B: Driver Module

One module provides power and dimming control for:

- Up to four (4) 1500L Luminaires
- Up to two (2) 2500L Luminaires
- One (1) 5000L Luminaire

Order Number: DVR-1400B



Must be used with Symphony 0-10V Driver Cabinet (SYM-CABNT).

Specifications DVR-1400B

Input Electrical Specifications (Per Installed DVR Module)

Nominal input voltage range AC	120 - 277V
Absolute input voltage range AC	108 - 306V
Input frequency range	50 - 60Hz
Maximum wattage	75W
Efficiency at full load	85%
Power factor at full load	> 0.95
THD at full load	< 20%
Maximum inrush current	< 200mA²s @ 120V / 60Hz < 200mA²s @ 277V / 60Hz
Surge protection	2kV differential mode (DM) 2kV common mode (CM)
Maximum standby power	0.5W

Environmental Conditions

Operating ambient temperature (Ta) Range		
Module -20°C to +50°C		
Acoustic noise - steady state	< 24dBa (Class A)	
All components	Dry location only	

Dimming Control

Control protocol	0-10V
Dimming range	100% - 0.1%, off
Dimming curve	Linear

Remote Mounting Distance

Max. distance

250 feet



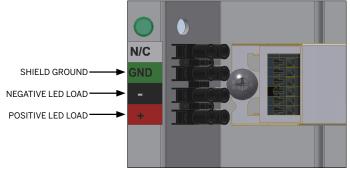
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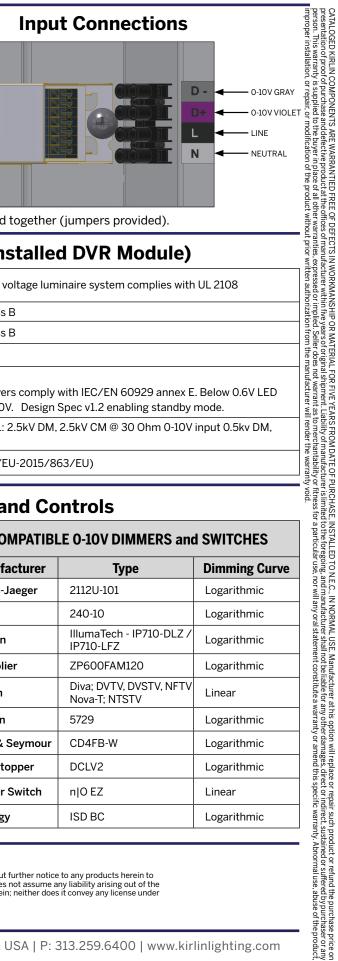
DVR-1400A/DVR-1050A/DVR-1400B

Symphony 0-10V Remote Driver Modules



Output Connections





Input to modules can be separate or connected together (jumpers provided).

Standards & Compliance (Per Installed DVR Module)

UL Listed, Class P, Class 2	UL 1310 UL 8750	This low voltage luminaire system complies with UL 2108		
Conducted emissions	FCC title 47 CFF	FCC title 47 CFR part 15 class B		
Radiated emissions	FCC title 47 CFF	FCC title 47 CFR part 15 class B		
Electrostatic discharge	EN 61000-4-2	EN 61000-4-2		
0-10V	IES/EN 60929 annex E NOTE: From 0.6V to 10V drivers comply with IEC/EN 60929 annex E. Below 0.6V LED drivers comply with ABL 0-10V. Design Spec v1.2 enabling standby mode.			
Surge protection	ANSI 62.41 1991 category B1: 2.5kV DM, 2.5kV CM @ 30 Ohm 0-10V input 0.5kv DM, 1kV CM surge			
Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/863/EU)			

Compatible Dimmers and Controls

COMPATIBLE DIMMING CONTROL SYSTEMS

Manufacturer	Туре		
Lutron Electronics	GraphicEye - GRX-TVI w GRX3503, Linear Energy Savr Node - QSN- 4T16-S, TVM2 Module		
Crestron	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC- DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX		
ABB	SD/S 2.16.1		

COMPATIBLE 0-10V DIMMERS and SWITCHES

Manufacturer	Туре	Dimming Curve
Busch-Jaeger	2112U-101	Logarithmic
Jung	240-10	Logarithmic
Leviton	IllumaTech - IP710-DLZ / IP710-LFZ	Logarithmic
Lightolier	ZP600FAM120	Logarithmic
Lutron	Diva; DVTV, DVSTV, NFTV Nova-T; NTSTV	Linear
Merten	5729	Logarithmic
Pass & Seymour	CD4FB-W	Logarithmic
WattStopper	DCLV2	Logarithmic
Sensor Switch	n O EZ	Linear
Synergy	ISD BC	Logarithmic

Note: Some dimmers may cause reduced stability at the lowest dim level setting; this is normal and may be resolved by increasing the lowest dim level setting if your selected dimmer allows.



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Light Description	LED Driver Module		
	DVR-1400A	DVR-1050A	DVR-1400B
-1500L Luminaire	Up to 2 fixtures in series per driver		Up to 4 fixtures in series per driver
-2500L Luminaire	1 fixture per driver		Up to 2 fixtures in series per driver
-4000L Luminaire		1 fixture per driver	
-5000L Luminaire	2 drivers per fixture		1 fixture per driver
-6500L Luminaire	2 drivers per fixture		

