

Power and Diming Control solutions for your state-of-the-art installation!

Power Thru Relay with three position switch selection for the following modes

- 1. DIM Dimmer Mode
- 2. N/D Non Dimmer or Relay Mode
- 3. BP Bypass (Power Thru) also called Constant
- Power Through selection is on the face of each module
- Dim and N/D functions are controlled by the console
- BP is always on (Constant)

Plug-in Modular Dimmer System

- Dual 15 or 20 amp SSR Dimmer Modules with 350μs, 500μs filter chokes
- Dual SSR 1.8kW and 2.4kW available at 120V
- Contactor modules provide switched On/Off control for a wide range of loads
- All dual and single SSR modules are available with optional status reporting
- Circuit Breaker design for improved trip indication and a smooth faceplate, eliminating breaker damage in touring applications
- All magnetic circuit breakers are rated for lighting applications and designed for improved trip indication
- cETL and ETLus listed



C21 Power Through Dimming Modules

- Future Proofing your Lighting system for both incandescent, LED, or moving lights
- Flexible loading when the lighting plot is consistently changing due to performance needs allowing for "mixed" circuiting between dimmed or relay controlled circuit
- When using a hybrid lighting plot of traditional fixed and moving lights or LED luminaires that need a relay controlled straight power circuit
- Any application that utilizes both standard forward phase dimming and contact relay straight power

SPECIFICATION SUBMITTAL

CONSULTANT:	PROJECT NAME:	MODEL NUMBER QUANTITY:
DATE:	PROJECT NUMBER:	APPROVED BY:

The C21 dimmer rack was developed in response to in depth market research from key customers and consultants. The new dimming system allows users to freely mix dimmers of any type within a single rack. Dual and single dimmer and contactor modules may be ordered with dimmer status reporting electronics, providing system operators with a wide range of dimmer information.

All dimmer status and rack configuration is available via any Web Browser connected to the lighting network. C21 Dimmer Systems feature a universal 24 and 48-module rack design that provides support for 90-130 volt operation and are cETL / ETLus marked. About Power Through Modules... Power Through C21 Dimming/Switching modules represent the next step in future proofing your new or existing dimming systems.

Power Through modules offer a dual 350uS/500uS (120 VAC) SSR dimmer (Silicon Controlled Rectifier) in conjunction with a mechanical bypass relay for each dimmer. Each module has two individual recess mounted switches that allow for a manual switch control between Dimmer, Non-Dim (Relay) and BP (Constant) so there is never a mistake about how your system is set up.

Many solid state lighting instruments do not like power from a dimmed circuit. In this case the manual switches on each module ensure that you have complete control of your rig's power with-out any question regarding remote activation or deactivation of your Power Through Module settings. In Dimmer (DIM) Mode, the SSR will work exactly the same way that C21 dimmers have worked for years.



In Power Through (BP-Constant) Mode the circuit will completely bypass the Choke and SSR giving you clean power to your Lighting devices and power supplies that require a constant power feed. In Non-Dim Mode (ND) the delivery of full power to the load is controlled via the Console.

Technical Specifications	All Standard C21 dimmer	NOTE: As with any SSR phase controlled dimming system, Philips
Standards Compliance:	modules are cETL / ETLus listed	Strand Lighting always recommends the use of K-13 or better transformers (by others) to limit the propagation of triplen harmonics
	listed	generated by these dimmers. Harmonic-Mitigating Transformers (zig-
		zag transformers) are acceptable substitutes for the K rating. Harmonic
Mechanical Data	Heavy duty formed aluminum	Blocking filters or harmonic suppressing systems are generally not used
Construction:		as they will cause unacceptable dimming performance.

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Ordering Information Cat No. Description



Specialty - Power Through Modules	Specialty - Power Through Modules
120VAC - 15A, 1.8kW, Dual SSR Dimmers	120VAC - 20A, 2.4kW, Dual SSR Dimmers
All are Dim/ND/BP	All are Dim/ND/BP
76551BPR, 350μs	76562BPR 350μs
76552BPR , 500μs	76563BPR 500μs
76556BPR, Reporting, 350μs	76567BPR Reporting, 350μs
76557BPR, Reporting, 500μs	76568BPR Reporting, 500μs

Dimmer Specifications:

Supply:	90 to 130VAC, 3-phase, neutral + earth, 47 to 63 Hz	
Maximum output voltage	20-130volts (e.g. set to 105V for extended lamp life)	
Storage Temp:	-40°C to 70°C	
Operating Temp:	1°C to 40°C ambient	
Storage Humidity:	0% to 95%, relative humidity, non-condensing	
Operating Humidity:	10% to 95%, relative humidity, non-condensing	
RCD:	Residual Current Device with circuit protection.	
Circuit protection:	Appropriately sized fully magnetic or thermal/magnetic circuit breaker of 10,000 AIC (15A & 20A @ 120V)	
Load regulation:	Dimmers will maintain their output within +/- 1% of the set output with load	
	changes from 1kW to the maximum rating of the dimmer.	
Line compensation:	The system regulates dimmer outputs to within 1V over operating voltage	
	range. Each dimmer is individually regulated.	
Efficiency:	Minimum power efficiency for dimmers is 97% at full load.	
	Maximum full load dimmer loss is 3V RMS.	
	Contactor non-dim power efficiency is 99%.	
DC component of output:	Less than 1 volt with tungsten loads from 60W to the maximum rating of the dimmer, at all control levels.	
Instructions on mounting	The dimmers are inserted into guide rails and pushed firmly back into the rack	
and actuating switch	connectors.	
Earth Ground	An earth ground lug is provided in the rack. The dimmer connectors in the	
	rack are polarized to prevent dimmer modules being plugged into the	
	different ampacity slots.	
Class I Equipment	Earth ground is employed as supplementary protection.	
Part Numbers	765xx are for 120VAC	
Load Type	Inductive Loads are support for all new Specialty - Power Through Modules.	
	Voltage and Current values are noted on each dimmer.	
Rated Cycles	1E4 (10,000)	
Type of disconnection	Electronic disconnection through SSR and full disconnection through mechanical relay	

Note: All specifications are correct at the time of going to press. In the interest of continuous product improvement Strand Lighting reserves the right to change specifications without notice.