

ACHITECTURAL DIGITAL DIMMER

Dimsense Module

Digital Dimmer DSM Series is a development from The Diligent Digital Dimmer (DD-Series). It's superior technology allows Digital lighting control and the ability to handle complex and large scale Projects.

DSM Series

Feature

1. Circuit controlled by Microcontroller.
2. Up to 32 program settings.
3. System is protected from excess power or short circuiting by MCB. under IEC/EN 60898 standards.
4. Voltage isolation between the control system and power system is ensured safety by the opto-isolator with AC. voltage tolerance valued at 7,500 volts.
5. RFI. Suppression noise protection system employing the Toroidal choke and the R-C Network. Meet with BS 800,VDE 0875 and CISPR 14 (EN55015), (EN55022), (EN50081) standards.
6. Heat ventilation using heat sink.
7. Solid State Thyristor phase power or relay control system.
8. Light dimming by the Square Law "B" Dimming Curve.
9. "E² PROM" data loss protection system (No need for battery back-up).
10. 40°C Maximum ambient temperature for 100% duty cycle.
11. Lamp indicator each channel.
12. Panic override function (By-Pass System).
13. Compatible with Incandescent, Halogen, Halogen low voltage, Fluorescent, LED and other.
14. Can be Programmed by front panel and Hand Held Programmable.
15. Scene recall using by front panel and remote control.
16. Load test with auto fade testing function.
17. Function Monitor : For easy viewing of lighting level of each channel
18. Independent setting for Dim or Non-Dim function.
19. Start Dimming can be set on a per-channel basis (0-100%).
20. Start Non-Dim can be set on a per-channel basis (0-100%).
21. Filament Preheat can be set on a per-channel basis (0-20%).
22. Output Limit can be set on a per-channel (0-100%) basis.
23. Fade time setting for scene change (0-60 Minutes)
24. Master/Slave setting for system control management.
25. Lock key function to prevent operation.
26. Can be patch channel.
27. Start address (DMX-512) Setting.
28. A choice of wall mounted and Cable Tray installations.
29. Compatible with control signal input at DMX-512 and Lunar protocol (RS-485)
30. Compatible with 1-Phase, 2 Wires 200-240 V.AC. 50Hz.
31. CE EMC Standard.



Technical Specification

Digital Dimmer Modules	DSM-14	DSM-22	DSM-24	DSM-24A	DSM-52	DRM-24	DRM-24A	DRM-52	DRM-52A	DRB-02
Max. Load / Channel (kW.)	1 kW.	2 kW.	2 kW.	2 kW.	5 kW.	2 kW.	2 kW.	5 kW.	5 kW.	2 kW.
Max. Load / Channel (Amp.)	6A.	10A.	10A.	10A.	25A.	10A.	10A.	25A.	25A.	10A.
Supply voltage	1-Phase, 2 Wires 200-240 V.AC. 50 Hz.									
Load Type	Incandescent, Halogan, Halogen low voltage, Fluorescent,Cold Cathode and other.									Motor
Dimmer Curve	Square Law "B" Dimming Curve					Relay				
Power Device	Solid State Thyristor phase power					Relay				
Phase Control	Forward Phase Control					Relay				
RFI. Suppression	Toroidal Choke and R-C Network					-				
Short Circuit Protection	Miniature Circuit Breaker									
Ventilation	Heatsink									
Max. Ambient Temperature	40° C									
Input Control	DMX-512 and Lunar protocol (RS-485)									
Wiring Power Supply	1 Phase 2 Wires 200-240 V.AC. 50 Hz. THW. 4-10 mm ² Screw Terminal									
Wiring Load	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	4-6 mm ²	2.5 mm ²	2.5 mm ²	4-6 mm ²	4-6 mm ²	2.5 mm ²
Wiring Control Signal	UTP CAT-5, RS-485 (IT BELDEN 9841/9842) or Equivalent									
Connectors Supply Input	Internal Interminal Blocks									
Connectors Output (Load) Connector	Internal Interminal Blocks									
DMX.Signal Input and Output(Daisy Chain)	Screw Terminal on board									
Analog Signal Output	Screw terminal (DSM-24A ,DRM-24A and DRM-52A Only)									
Dimensions WxHxD (mm.)	177 x 400 x 107									
Weight Approx (kg.)	6	5	6	6	6	4	4	4	4	4
Weight Gross Approx (kg.)	6.3	5.3	6.3	6.3	6.3	4.3	4.3	4.3	4.3	4.3
Mounting	Wall Mounted and Cable Tray									

Model Information

DSM-14	Digital Dimmer 1 kW. x 4 Ch.
DSM-22	Digital Dimmer 2 kW. x 2 Ch.
DSM-24	Digital Dimmer 2 kW. x 4 Ch.
DSM-24A	Digital Dimmer 2 kW. x 4 Ch. / 0-10 V.DC.
DSM-52	Digital Dimmer 5 kW. x 2 Ch.
DRM-24	Digital Relay 10A. X 4 Ch.
DRM-24A	Digital Relay 10A. X 4 Ch. / 0-10 V.DC.
DRM-52	Digital Relay 25A. X 2 Ch.
DRM-52A	Digital Relay 25A. X 2 Ch. / 0-10 V.DC.
DRB-02	Digital Relay Box for Motor 2 Ch.