

Product Highlights

- The DCS Series Controllers provide Lighting Control Flexibility in a compact, slim 115 mm x 122 mm and only 22 mm wide package.
- Seamless switching from continuous-on to gated on/off and strobe overdrive; 3 independently configurable trigger inputs.
- 1 output, 3 channels - designed to drive multi-channel RGB / segment lights, as well as single higher current draw lights.



General Specifications

Input Voltage Range	24V nom. (min 12 / max 30)
Maximum Input Current	4.5A
Output Power	30W per Channel
Modes	Pulsed, Continuous, Gated Continuous
Trigger to Pulse Latency	10 μ sec
Trigger	5-30VDC, 2KHz, Opto-Isolated Inputs
Pulse Width Range	10 μ sec - 65 msec
Programmable Pulse Delay	1 μ sec - 10 msec
Duty Cycle	10% pulsed / >10% Gated Continuous

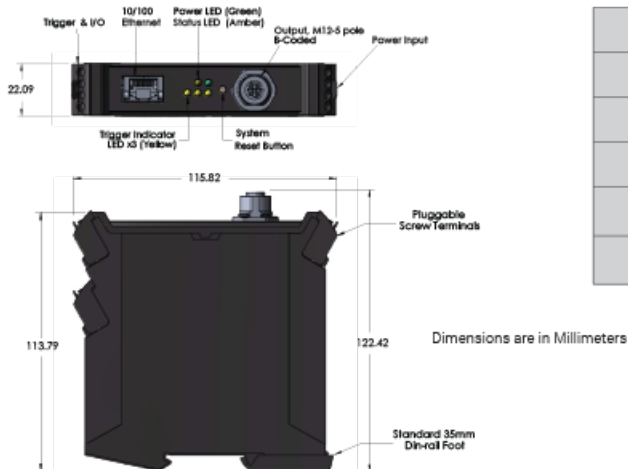
Part Number Key

Model	—	Controller	Connection Type
DCS	—	XXX	X
DCS	—	100	E
Example light part number for DCS lighting controller: AL295-150WHIC1			



DCS-100E and DCS-103E Shown

Mechanical Specs



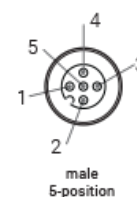
Length mm (in)	115.82 (4.5)
Width mm (in)	22.09 (.86)
Height mm (in)	122.42 (4.8)
Weight	185g
Operating Temp.	-25 to 57°C
Compliance	CE, RoHS

The DCS-100E controller is only compatible with lights employing a "C1" connector.

Cable Specifications:

B-Coded
 PVC Jacket
 Foil Shield + Drain Wire
 5.7mm (0.225") outer diameter

Optional M12 Pinout



Electrical Specs

Standard Wiring Information

Pin	Channel	Wire Color	Type
1	Channel 1 (+)	Brown	Power
2	Channel 2 (+)	White	Input
3	Channel (-)	Blue	Power
4	Channel 3 (+)	Black	Input
5 ¹	SignaTech®	Gray	Input

¹ Do NOT connect anything to pin 5 – damage to internal electronics may occur if pin 5 is used for anything other than SignaTech® protection.

- Trigger Inputs are bi-directional opto-isolated.
- Common may be tied to +V or GROUND depending on whether sinking or sourcing is to be used.
- All inputs are TTL-compliant, and are rated to +30VDC.
- Inputs are clamped and protected against overvoltage.

Power Input

Pin	Function	Notes
1	24V DC	4.5A recommended minimum for best performance
2	DC GND	
3	DC GND	
4	SHIELD	Optional: Tied to chassis copper for ESD/EMI protection. Tie to earth ground if needed.

External Trigger Input (top connector)

Pin	Function	Notes
1	COMMON	Connect to common ground of supply voltage based on sinking/sourcing requirements. All triggers share common.
2	TRIGGER 1	5-30VDC tolerant
3	TRIGGER 2	--
4	TRIGGER 3	--

Warranty Information

Every Advanced illumination, Inc. (Ai) product is thoroughly inspected and tested before leaving the factory. Products are warranted to be free of defects in workmanship and materials for a period of FIVE YEARS from the original date of purchase. Should a defect develop during this period, customers may return the complete product, freight prepaid, to one of Ai's distributors or to the Ai factory. All product warranty returns require a Return Merchandise Authorization (RMA) number which is obtained from Customer Service. The RMA number must be clearly marked on the outside of the package. Ai will inspect the unit, and if a defect is found will, at our option, repair or replace the product without charge. Ai disclaims liability for any implied warranties, including implied warranties of "merchantability" and "fitness for a specific purpose." For products under warranty that have since been discontinued, Ai will make an effort to replace with equivalent parts; for circumstances that do not allow for equivalent replacement, Ai reserves the right to repair or replace these products with an updated version. Ai cannot be held responsible for the unauthorized or inappropriate use of its products. Any unauthorized repair or modifications will result in a voided warranty.

No Liability for Consequential Damages: In no event shall Ai be liable for any consequential, special, incidental, or indirect damages of any kind arising from the sale or use of the products.

Electromagnetic Compatibility

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable protection against harmful interference only when the product is operated in its intended industrial electromagnetic environment. To minimize the potential for electromagnetic interference or unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Customer Service

For information on existing orders, or to make an order adjustment, contact us Monday through Friday 8:00 am to 5:00 pm ET or send an email to orders@advill.com.

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