DDRC810DT-GL

Eight-Channel Relay Controller

Specification Sheet

Controllers > Relay Controllers

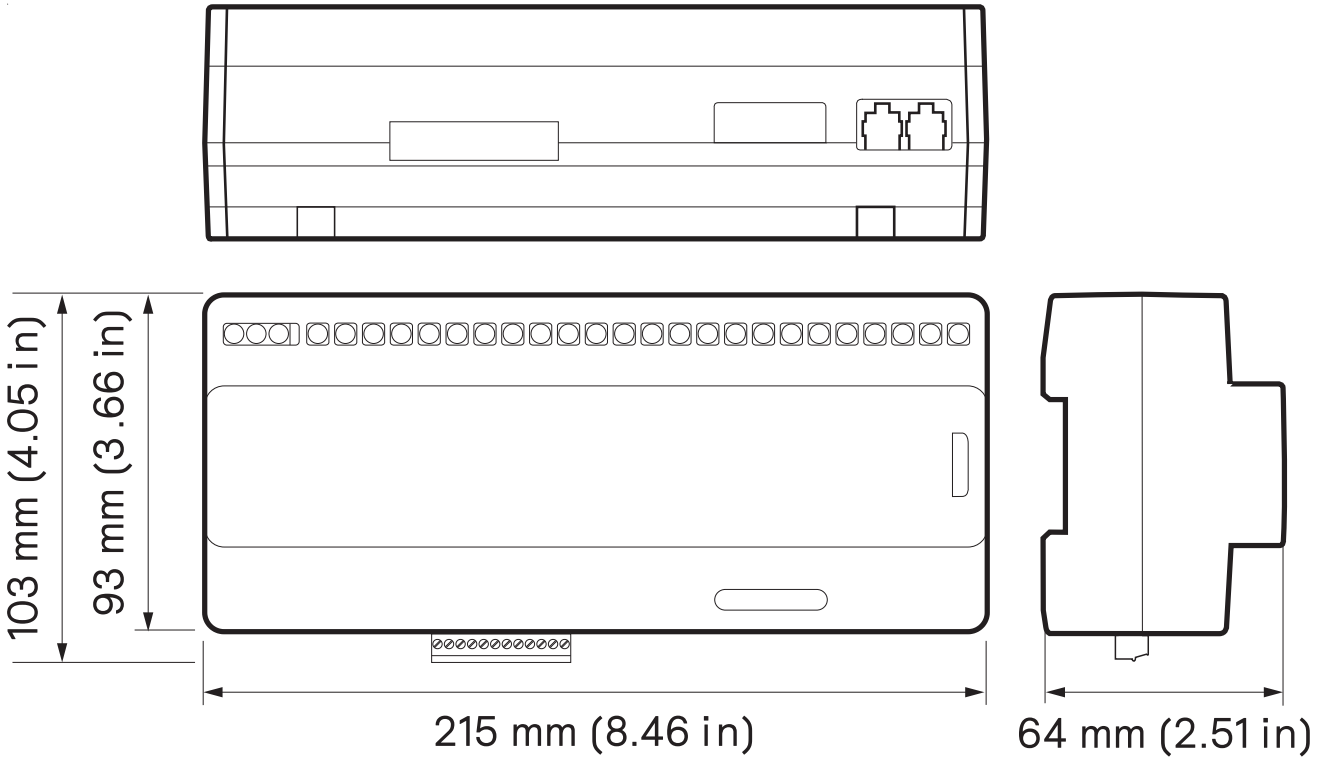
Designed to operate any type of switched load

The Dynalite DDRC810DT-GL is ideal for controlling bi-directional motors such as curtains and blinds. This eight-channel device is suitable for any switched load up to 10 A per channel, with a maximum box load of 40 A.

Key Features

- **Voltage-free changeover SPDT output relays** – Perfect for controlling bidirectional motors
- **Flexible mounting** – DIN rail mounting clips designed for installation into the distribution board supplying power to the controlled circuits.
- **Inbuilt diagnostic functionality** – Circuit run time tracking on each channel
- **Standalone or networked operation** – Can operate as a discrete standalone unit, or as part of an integrated control system when connected to the DyNet network.
- **8 dry contact inputs** – Receives instructions from voltage-free button presses.

Dimensions



Specifications

Electrical

Supply Type	Single-phase
Supply Voltage	100-240 VAC 50/60 Hz
Supply Current	0.25 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	120 mA (supports approx. 6 user interfaces)
Outputs	8 x switched SPDT voltage-free changeover
Maximum Device Load	40 A
Maximum CH-CH Voltage	400 VAC

Control

Communication Ports	1 x RS-485
Supported Protocols	DyNet DMX512
DMX Rx Channels	8
Dry Contact Inputs	8 + 1 (AUX)
User Controls	1 x service switch 8 x channel override switch
Indicators	1 x service LED

Physical

Dimensions	93 x 215 x 64 mm (3.66 x 8.46 x 2.51 in)
Packed Weight	0.54 kg (1.19 lb)
Construction	Polycarbonate DIN rail enclosure (12 unit)
Serial Ports	1 x 6-way pluggable screw terminal 2 x RJ12
Serial Port Conductor Size	0.3-2.5 mm² (#22-12 AWG)
Output Terminals	3 x screw terminal
Output Terminal Conductor Size	≤5 mm² (#10+ AWG)
Supply Terminals	3 x screw terminal
Supply Terminal Conductor Size	≤5 mm² (#10+ AWG)
Maximum Dry Contact Cable Length	20 m

Environment

Operating Temperature	0° to 50°C ambient (32° to 122°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	≤90% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only

Compliance

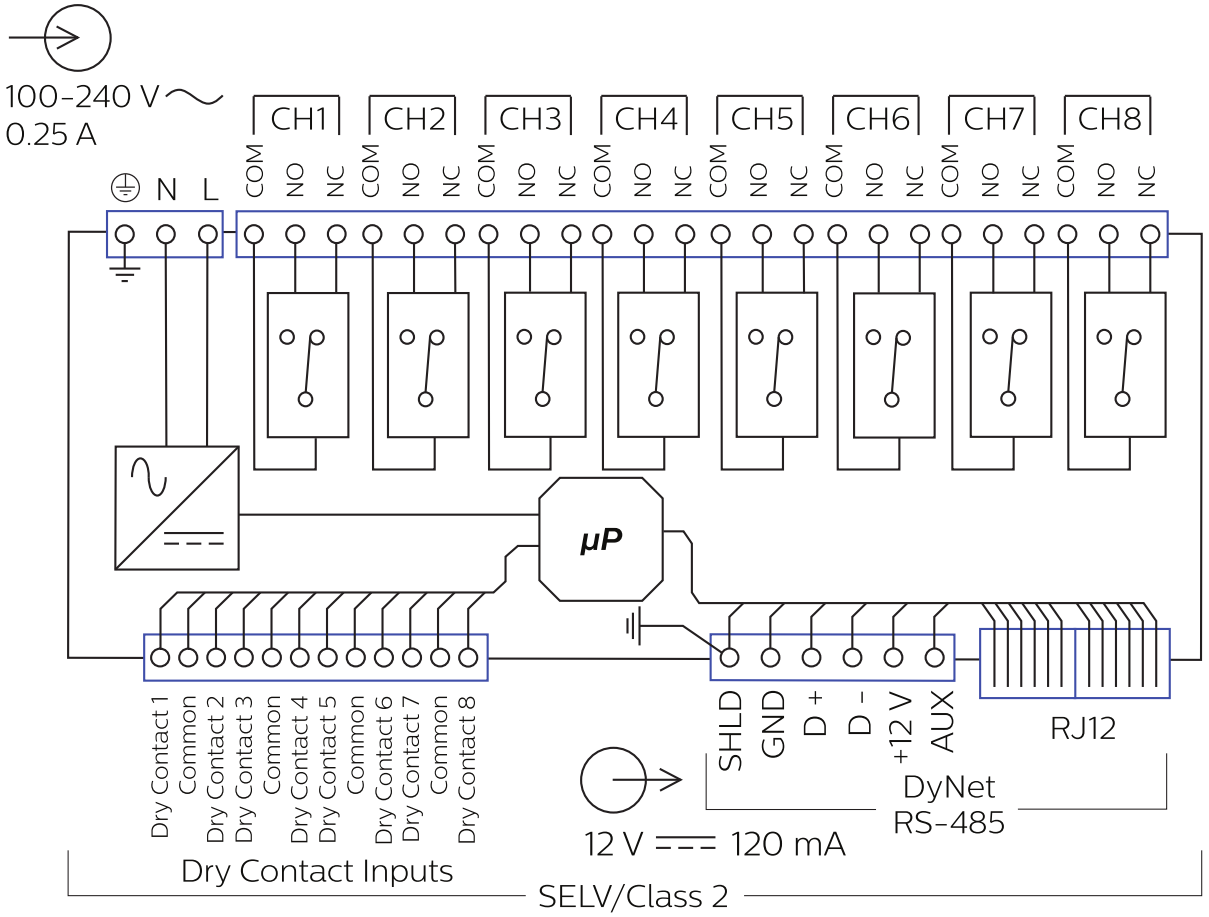
Certifications	CE, RCM, UL/cUL, FCC, UKCA, RoHS

Output Channel Ratings

Load Type	CH1-CH8 N/O
General Use	10 A, 240 VAC 5 A, 24 VDC
Incandescent	5 A, 240 VAC
Electronic Driver	1 A, 120 VAC 0.5 A, 240 VAC
Motor	9.8 FLA (½ HP), 120 VAC 8 FLA (1 HP), 240 VAC
Inrush Current	100 A
TV Rating	TV-5, 120 VAC
Load Type	**CH1-CH8 N/C**
General Use	5 A, 240 VAC 5 A, 24 VDC
Total Device Load	
≤ 40 A	
NOTE	

- Snubbers/spark killers not fitted - de-rate for reactive loads
- Functional isolation only between switched outputs
- Do not mix SELV and non-SELV loads on the same device

Electrical Drawing



Ordering Codes

Product	12NC
DDRC810DT-GL	913703035209

Policies and Notices

Specific Data Notice

This Specific Data Notice applies to the Controllers as specified in this product specification sheet (the **"Controller"**) that is part of or works with a Professional System offered by Signify for use in the European Union and supplements and/or corrects the Generic Data Notice For Professional Systems and Services that can be found at https://www.signify.com/global/resources/policies-announcements (the **"Generic Data Notice"**) by providing additional and/or more specific details specific to this Controller.

Terms starting with a capital in this Specific Data Notice will have the meaning as attributed thereto in the Generic Data Notice, unless explicitly defined otherwise in this document.

When used in a Signify professional lighting system in combination with a Dynalite Gateway with either the Dynalite Switch App, Dynalite System Builder, Dynalite System Manager, or Dynalite Cloud, the Controller can generate the Data as specified below:

- Operational Data: Lighting control commands based on the configured control logic in the product via the DyNet network
- Sensor Data: This product does not generate any sensor data.

The type and volume and format of Data that is generated depends on the actual devices connected to the Controller, the product and/or software configuration. For further details on data generation capabilities of such devices, please check the product specification sheets of such devices.

The Data generated in this combination is communicated via the network to the gateway and is stored on the gateway. If configured to do so, the gateway can forward the Data to Dynalite Cloud or to Dynalite System Manager. For applicable retention period and means of access to Data that is Readily Available Data, please refer to the Dynalite Cloud software specification sheet. Data cannot be accessed directly from the Controller. Data can be accessed from the Gateway using Dynalite System Builder or directly from any of the APIs of the Gateway. The Gateway will persist the Data for 28 days on a rolling basis.

This Specific Data Notice may be changed by Signify from time to time. The current version of this notice will apply and can be obtained at request via the point of contact as indicated in paragraph 7 of the Generic Data Notice.

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