

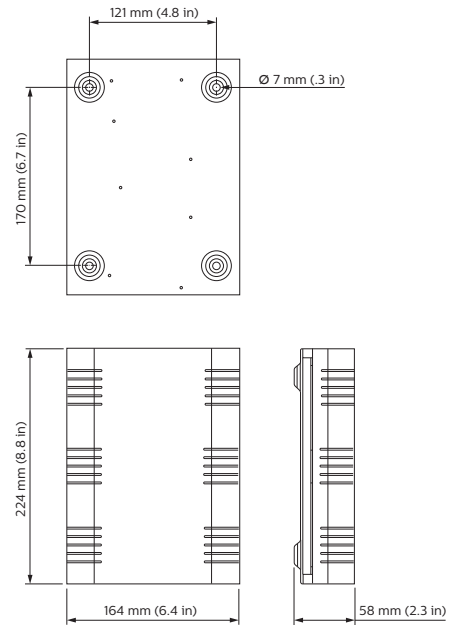


DNG232-NA RS232 Network Gateway

Cost-effective serial port integration

The Philips DNG232-NA network gateway provides cost-effective serial port integration between a DyNet network and third-party systems.

- Seamless integration with third-party systems — Including AV systems, lighting desks, data projectors, HVAC, BMS and security systems.
- Internal controls — Including programmable logic controller capable of comprehensive conditional and sequential logic and arithmetic function processing.
- Utilize data format library or create your own — A library of data formats is available for systems integrators, or can be created using the onboard conditional logic engine to assemble and transmit user-defined data strings.
- Macro functions available — To simplify the control of multiple devices.



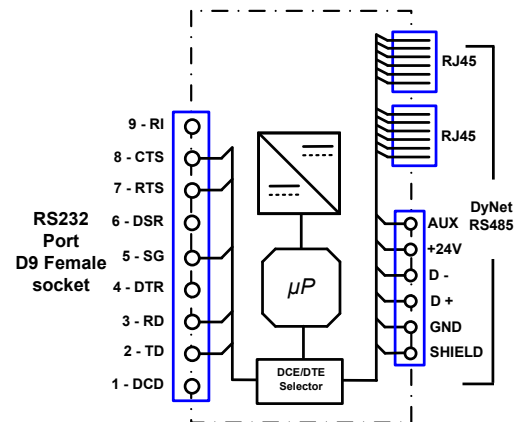
For detailed product information, please refer to the product information pages at www.philips.com/lightingcontrolsna.

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

| Item | Specification | Details |
|--------------------|--------------------------|--|
| Electrical | DyNet DC Supply | 24VDC @ 80 mA |
| Control | Data Ports | One RS-485 DyNet serial port One RS-232 serial port |
| | RS-485 Port Connections | SHLD, GND, D+, D-, +24V Screw terminals 1 x 14 AWG or 2 x 18 AWG max conductor size. Service access RJ45 jack provided |
| | RS-232 Port Connection | One female DB9 connector |
| | RS-232 Port Modes | DTE, DCE; selected by jumpers |
| | RS232 Data Formats | Baudrate: 600 - 250 k Max packet length: 254 bytes Data bits: 7 / 8 Stop bits: 1 / 2 Parity: odd/even/none Flow control: none / RTS-CTS |
| | User Controls | Service Switch Diagnostic LED |
| Physical | Dimensions (H x W x D) | 8.8" x 6.4" x 2.3" (224 mm x 164 mm x 58 mm) |
| | Packed Weight | 4.4 lbs (2.2 kg) |
| | Construction | Steel wall mount case with epoxy finish |
| | Operating Conditions | Temperature: 32 to 122° F (0 to 50° C) ambient Humidity: 0 to 95% non-condensing |
| | Storage & Transport | Temperature: -13 to 140° F (-25 to 60° C) ambient Humidity: 0 to 90% non-condensing |
| Certification | Certification | ICES, FCC, RoHS Compliant |
| Options & Ordering | Standard Product | DNG232-NA (Philips 12NC - 913703581209) |
| | CAT5/CAT6 Wiring Adapter | DRJ45ADAPT |

Electrical Diagram



RS-232 Control Lines

| Pin | Function | Implementation |
|-----|---------------------------|---------------------|
| 1 | DCD (data carrier detect) | Not connected |
| 2 | RD (received data) | Connected to UART |
| 3 | TD (transmitted data) | Connected to UART |
| 4 | DTR (data terminal ready) | Not connected |
| 5 | SG (signal ground) | Connected to Ground |
| 6 | DSR (data set ready) | Not connected |
| 7 | RTS (request to send) | Software controlled |
| 8 | CTS (clear to send) | Software controlled |
| 9 | RI (ring indicator) | Not connected |



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