

DNG232-NA

RS232 Serial Port Interface

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The Philips DNG232-NA is designed to enable cost effective serial port integration between the Philips control system and third party systems such as AV, lighting desks, data projectors, HVAC, BMS and security. The interface is capable of comprehensive conditional and sequential logic and arithmetic functions.

A library of data formats is available for the systems integrator to choose from or, alternatively, a format can be created using the on-board conditional logic engine to assemble and transmit user-defined data strings. Macro functions are available to simplify the control of multiple devices.

Technical Data



Supply

DyNet DC Load: max. 80mA@24VDC

Data Ports

1 x RS485 DyNet serial port
1 x RS232 serial ports

RS485 Port Connections

SHIELD, GND, D-, D+, +24V
screw terminal: 1 x 14 AWG or 2 x 18 AWG max. conductor size
Service access RJ45 socket provided

RS232 Port Connections

1 x Female DB9 connector

RS232 Port Modes

DTE, DCE, selected by jumpers

RS232 Data Formats:

Baudrate: 600-25k
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

Compliance

ICES, FCC, RoHS Compliant

Operating Environment

32° to 122°F (0° to 50°C) ambient temp
0% to 90% RH non condensing

Construction

Steel wall mount case with epoxy finish

Dimensions

H 8.6" x W 6.5" x D 2.3"

Weight

Packed weight 4.4 lb

RS232 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

Job Information Type:

Job Name:

Cat. No.:

Notes:

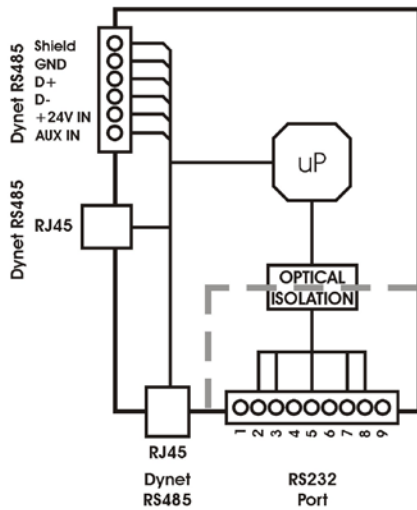
PHILIPS

sense and simplicity

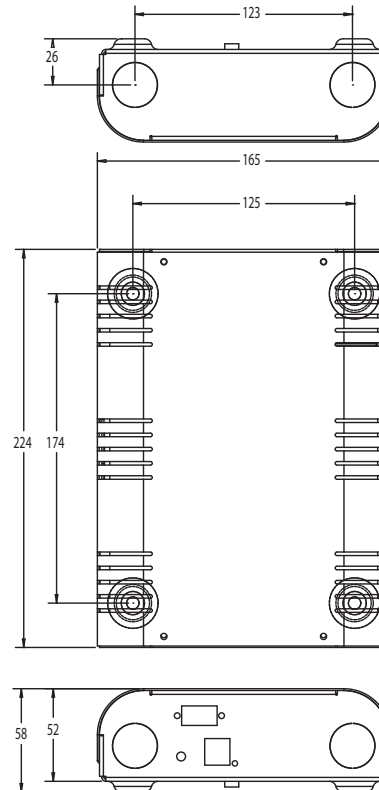
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Electrical Diagram



Mounting Dimensions



Plain English Text Interpreter

The factory settings will allow control of a Philips system via plain English text strings which can be easily sent from a terminal program. To use the Microsoft terminal program, from the Start menu go to Programs > Accessories > Communications > HyperTerminal, then enter any name for the connection then select your PC's COM port (usually COM1) at 9600 baud with no flow control.

Examples of plain English commands ([enter] means the Enter key on the computer's keyboard):

Desired Action

Selecting Preset 8 in Area 1 with a fade of 3 seconds
Request the Current Preset for Area 1
Fade Channel 4 in Area 1 to a level of 70%
Request the current level for Channel 1 Area 1 Request
Request a full list of commands available

Most commands have abbreviated versions, which are detailed in the help section. As well as using a Terminal program, commands may be sent and received via automation software. To facilitate this the asterisk * may precede a command to flush the transmit buffer of any information, eg. * **Channel 4 Area 1 Level 70 Fade 3 <CR>**

Note the preceding * which will flush any existing information from the transmit buffer, see the "help" function for more details.

Type this string

Preset 8 Area 1 Fade 3 [enter]
RequestCurrentPreset Area 1 [enter]
Channel 4 Area 1 Level 70 Fade 3 [enter]
ChannelLevel 1 Area 1 [enter]
help [enter]

Device will reply with this string

Preset 8 Area 1 Fade 3
Reply with Current Preset x Area 1 Join fhex
Channel 4 Area 1 Level 70 Fade 3
Channel 1 Area 1 Level 70

Ordering Information

Type	Description	Quantity
DNG232-NA	RS232 Serial Port Interface	1



Philips Lighting Controls
e: controls.support@philips.com
t: 1-800-526-2731
w: www.lightolier.com

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Specifications are subject to change without notice.
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Job Information **Type:**