

Description

The Holjeron Push Button Controller products for DeviceNet provide a convenient and compact method for connecting small control panels to a System bus. Each Push Button Controller supports up to four(4) inputs and two(2) outputs.

Holjeron's innovative bracketing for the Push Button Controllers allows them to be used with any 22,5 or 30,5 mm push button.

Specifications

Part Numbers	22 mm Push Buttons	PBC-DNT220
	30 mm Push Buttons	PBC-DNT222
	GE CR104P 30 mm Push Buttons	PBC-GEP222-D
Electrical	DeviceNet Voltage Range	11-25 VDC
	Current Consumption	40 mA plus inputs and outputs
	Data Rates	125, 250, and 500 kbps
Inputs	Type	Current Sinking (Sourcing load)
	Number	Four (4)
	Voltage Range	Bus Power
	Maximum Current	20 mA per input
Outputs	Type	Current Sinking
	Number	Two (2)
	Voltage Range	Bus Power
	Maximum Current	200 mA
Environmental	Temperature	Storage Operating
		-30° to 70° C (-22° to 158° F) 0° to 60° C (32° to 140° F)
	Humidity	5-95% RH, non-condensing
	Vibration	2G at 10 to 500 Hz
	Shock	10G
Physical	Dimensions	3.00" H x 2.0" W (Card Only)
	Weight	12 oz
	Mounting	Bracket, depending on version
	Terminations	DeviceNet I/O
		5 Pin Plug-in Terminal Block 7 Pin Plug-in Terminal Block
	Indication	Power Error SDS
		Green Red Green

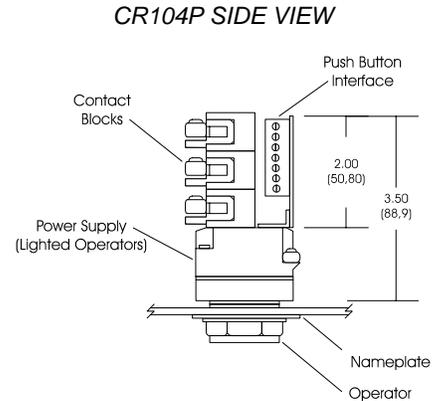
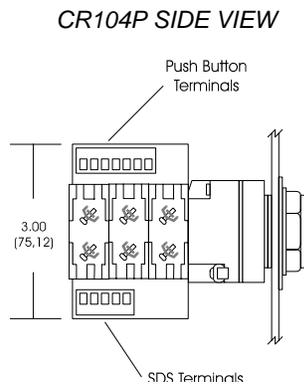
Warranty/Remedy

Seller warrants its products to be free from defects in design, material and workmanship under normal use and service. Seller will repair or replace without charge any such products it finds to be so defective on its return to Seller within 18 months after date of shipment by Seller. **The foregoing is in lieu of all other expressed or implied warranties (except title), including those of merchantability and fitness for a particular purpose.** The foregoing is also purchaser's sole remedy and is in lieu of all other guarantees, obligations, or liabilities or any consequences incidental, or punitive damages attributable to negligence or strict liability, all by way of example.

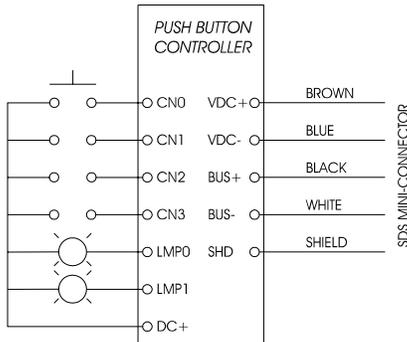
While Holjeron provides application assistance, personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

All information contained herein, including illustrations, specifications and dimensions, is believed to be reliable as of the date of publication, but is subject to change without notice.

Dimensions



Wiring



NOTICE:

The push button enclosure must be connected to earth ground to protect against EMI and RFI.

Configuration

The Push Button Controller can be configured using several tools. Consult the manufacturer of the configuration tool for details.

Quick Start

The following steps are the minimum configuration steps required to install a Push Button Controller.

Device MAC Id

Set the MAC Id of the device. All units are shipped from the factory as **address 63**.

Note: *Set the MAC Id before attaching a Motor Starter Controller to a complete bus. Otherwise, multiple devices may reside at the default address of 63.*

Configuration Options

The following steps are a guide to help the commissioning process to ensure the product will function as desired. Default values are shown in bold typeface.

Input NO/NC

[Object 15, Instance 1, Attribute 44]

Each of the four inputs can be inverted by setting the corresponding bit in the NO/NC attribute. The attribute is a single byte with a default value of **0 (Normally Open)**.

Operation

The Push Button Controller is a simple "Group 2" slave device that communicates via polled I/O. Once a polled connections is established, the module expects a poll every 3.5 seconds, otherwise the module will time out and shut off its outputs as a safety feature. This connection timeout may be altered by setting the Expected Packet Rate (EPR) for the polled connection.

Input Variable

Bit	Name	Description
0	Input 0	State of physical input 0
1	Input 1	State of physical input 1
2	Input 2	State of physical input 2
3	Input 3	State of physical input 3

Output Variable

Bit	Name	Description
0	Output 0	Controls the state of physical output 0
1	Output 1	Controls the state of physical output 1

ID Object

[Class 1, Instance 1]

Attribute	Description
1	Vendor ID
2	Product Type
3	Product Code
4	Revision
5	ID Status
6	Serial Number
7	Product Name

DeviceNet Object

[Class 3, Instance 1]

Attribute	Description
1	MAC Id (0-63)
2	Baud Rate (0=125K)

Parameter Object

[Class 15, Instance 1]

Attribute	Description
42	Password
43	Serial Number
44	NO/NC