

## CMCP310 Series Switchable Output BNC Junction Boxes



### Features:

- Connect up to 48 Sensors
- Switched Output
- MS 5015 2 Pin Connector and BNC Output
- IP66, NEMA 4/4X Rated
- Fiberglass, Painted Steel or Stainless Steel
- Heavy Duty Terminal Strips
- Quick Release Door Latches
- Sensor Location Door Guide
- Optional IP68 Breakthrough Cord Grips

### Product Overview

The CMCP310 Series Switchable BNC Junction Boxes are multiple channel connection centers for terminating the outputs of accelerometers or other transducers. They are normally located in a close proximity to a machine to reduce wiring costs as well as to provide a convenient and safe location to access sensor signals. The CMCP310 Series BNC Boxes are circuit board based with a removable front cover plate to ease installation. The cover plate hides all internal wiring to limit exposure for increased protection.

### Electrical Specifications:

#### Input

Connection: Screw Terminals, 14-22 AWG  
Termination: Bare Wire or Spade Lugs (#6 Screw Size)  
Isolation: Electrically Isolated

#### Output

Connection: 50Ω BNC Jack (Female)  
2 Pin MS 5015 Connector  
Switch: 1 Switch Per 12 Channels  
Switch Type: Make Before Break  
BNC Dust Caps: External (-02) Versions Only

### Optional IEPE Power (Not Required for When Powered by Data Collector)

Power Input: 24VDC  
Current: Built-in 4.4mA Constant Current Diode

### Environmental Specifications:

**Material:** FG Option Compression Molded Fiberglass  
PS Option 14 AWG Mild Steel Polyester Powder Coated  
SS Option 14 AWG 304 Stainless Steels

**NEMA Rating:** FG and SS NEMA 4, 4X, 12 and 13  
PS NEMA 4, 12 and 13

**IP Rating:** IP66

**Temperature Range:** -55 to +85°C (-67 to 185°F)

**Door Closure:** 3/4 Turn Quick Release Latch (Steel) or Quick Release Latch (Fiberglass)

**Optional Cord Grips:** Material: Nylon / Zinc Plated Steel  
IP Rating: IP68  
Cable Diameter: 0.17"-0.22" Cable Diameter  
Location: Enclosure Bottom

## Mechanical Specifications:

<b>6-12 Channels</b>	8"x6"x4" Overall
<b>13-24 Channels</b>	12"x10"x8" Overall
<b>35-48 Channels</b>	16"x14"x10" Overall

## Ordering Guide

CMCP310	-XX	-XX	-XX	-XX	Description
	-FG				NEMA 4X Fiberglass Enclosure
	-PS				NEMA 4 Painted Steel Enclosure
	-SS				NEMA 4X Stainless Steel Enclosure
		-06			6 Channels
		-12			12 Channels
		-18			18 Channels
		-24			24 Channels
		-30			30 Channels
		-36			36 Channels
		-48			48 Channels
			-01		Internal (Switch and Connectors Accessible Inside Only)
			-02		External (Switch and Connectors Accessible Outside Only)
				-NE	No Cable Entries
				-CG	Cord Grips Installed

## Example Part Number

CMCP310FG-24-01-CG

24 Channel Switchable BNC Junction Box (24 Inputs / Switchable Output)

Internal Connections (Installed Behind Door)

Cord Grips Installed In Bottom for 24 Sensors

## Images:



**-PS**  
Painted Steel NEMA 4 Option



**-SS**  
Stainless Steel NEMA 4X Option



**-FG**  
Fiberglass NEMA 4X Option



**-CG Option**  
Breakthrough Liquid Tight Cord  
Grip (IP68)



**Internal View**



**Shown with Cord Grip  
Installed**