

## CMCP315 Series Triaxial Accelerometer Switchable BNC Junction Box

### Features:



- Available for 2 to 16 Triaxial Accelerometer Inputs
- 3 BNC Outputs (X, Y and Z)
- Optional Quick Connect Output
- IP66, NEMA 4/4X Rated Enclosures
- Fiberglass, Painted Steel or Stainless Steel Enclosures
- Heavy Duty Terminal Strips
- Quick Release Door Latches
- Top Plate Safety Cover
- Optional IP68 Breakthrough Cord Grips

### Product Overview

The CMCP315 Series Triaxial Accelerometer Switchable BNC Junction Boxes are multiple channel connection centers designed for terminating the outputs of triaxial accelerometers while allowing simultaneous data collection. 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 CMCP315 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, 22-14 AWG  
Termination: Bare Wire or Spade Lugs (#6 Screw Size)  
Isolation: Electrically Isolated

#### Output

Connection: Three 50Ω BNC Jack (Female) Marked X, Y and Z  
Switch: 1 Switch Per 4 Triaxial Sensor (16 Triax Input Provided with 4 Switches)  
Switch Type: 3 Pole Make Before Break  
BNC Dust Caps: External (-02) Versions Only

### Optional IEPE Power (Not Required for General Use)

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:** Quick Release Snap Latches with Lock

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

**Mechanical Specifications:**

2-4 Triax Inputs (6-12 Individual Channels):	8"x6"x4"
5-8 Triax Inputs (12-24 Individual Channels):	12"x10"x8"
9-16 Triax Inputs (25-48 Individual Channels):	16"x14"x10"

**Ordering Guide**

CMCP315	-XX	-XX	-XX	-XX	-XX	Description
	-FG					NEMA 4X Fiberglass Enclosure
	-PS					NEMA 4 Painted Steel Enclosure
	-SS					NEMA 4X Stainless Steel Enclosure
		-02				Up to 2 Triaxial Sensor Inputs
		-04				Up to 4 Triaxial Sensor Inputs
		-06				Up to 6 Triaxial Sensor Inputs
		-08				Up to 8 Triaxial Sensor Inputs
		-12				Up to 12 Triaxial Sensor Inputs
		-16				Up to 16 Triaxial Sensor Inputs
			-01			Internal Connections (Installed Behind Door)
			-02			External Connections (Installed in Door)
				-NE		No Cable Entries
				-CG		Cord Grips Installed
					-01	3x BNC Output Only
					-CSI	5 Pin Dual Keyed CSI Triaxial Connector Output
					-SKF	4 Pin Triaxial Bayonet Connector Output

**Example Part Number**

CMCP310FG-04-01-CG-CSI  
4 Triaxial Sensor Input Switchable BNC Junction Box (12 Channels Total)  
Internal Connections (Installed Behind Door)  
Cord Grips Installed In Bottom for 4 Sensors  
3 BNC Connector Outputs Marked X, Y, Z  
5 Pin Dual Keyed Triaxial Connector Output

**Images:**



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