

CMCP310 Series Switchable Output Junction Boxes



Features

- Connects up to 48 Sensors
- Switched Output
- MS 5015 2 Pin Connector and BNC Output
- Hinged Front Panel for Easy Access
- Fiberglass, Painted Steel or Stainless Steel
- Rated IP66/IP67, NEMA 4/4X
- Heavy Duty Terminal Strips
- Quick Release Door Latches
- Sensor Location Door Guide
- Optional IP68 Breakthrough Cord Grips

Product Overview

The CMCP310 Series Switch Boxes are multiple channel connection centers for terminating the outputs of accelerometers or other transducers. Typically, the boxes are installed close by the machine to reduce wiring costs as well as to provide a convenient and safe location to access sensor signals. The CMCP310 Series Switch Boxes are circuit board based with a hinged front cover plate to ease installation. A standard BNC Jack and a 2 Pin MS Connector are provided on the front panel for connecting portable data collectors.

Electrical Specifications

Sensor Input:	Screw Terminals, 14-22 AWG (Sig/Com)
Termination:	Bare Wire or Spade Lugs (#6 Screw Size)
Isolation:	Electrically Isolated
Output Connector:	BNC Jack (Female) and 2 Pin MS 5015 Connector
Switch:	Rotary Switch
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

Rating:	Stainless Steel	NEMA 4X, IP67
	Painted Steel	NEMA 4, IP66
	Fiberglass	NEMA 4X, IP66

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

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

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



Enclosure Dimensions

# of Channels	Typical Dimensions	Refer to Drawing
6 and 12	8"x8"x4" (203x203x102mm)	FG-S2 (Fiberglass, Size 2) XS-S2 (Steel, Size 2)
18 and 24	14"x12"x8" (356x305x203mm)	FG-S4 (Fiberglass, Size 4) XS-S4 (Steel, Size 4)
30 thru 48	16"x14"x10" (406x356x254mm)	FG-S5 (Fiberglass, Size 5) XS-S5 (Steel, Size 5)

Ordering Guide

CMCP310XX	-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)
			-00	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:



BNC Cable Connection



2 Pin MS Cable Connection



CMCP310PS
Painted Steel NEMA 4, IP66



CMCP310SS
Stainless Steel NEMA 4X,
IP67



CMCP310FG
Fiberglass NEMA 4X, IP66