Condition Monitoring Custom Products

CMCP300 Series
Individual BNC Output Junction Boxes

Features:

- Individual BNC Outputs
- Connects up to 18 Sensors
- Dual Output Sensor Compatible
- Stainless Steel, Painted Steel or Fiberglass
- Rated IP66/IP67, NEMA 4/4X
- Hinged Door and Front Panel
- Engraved Channel ID's
- Heavy Duty Sensor Input Terminal Strips
- Sensor Location Guide in Door
- Optional Installed IP68 Breakthrough Cord Grips

Product Overview

The CMCP300 Series BNC Junction Boxes are multiple channel connection centers for terminating the outputs of accelerometers or other transducers. They are normally located in close proximity to a machine to reduce wiring costs as well as to provide a convenient and safe location to access sensor signals. The CMCP300 Series BNC Boxes are available with either a Fiberglass NEMA 4X, Painted Steel NEMA 4 or Stainless Steel NEMA 4X enclosure. All enclosures feature integral mounting flanges and quick release door latches.
BNC boxes are suitable for Class 1 Division 2 environments.

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)
BNC Dust Caps:	External (-02) Versions Only

Environmental Specifications
Material:	SS Option	14 AWG 304 Stainless Steels
	PS Option	14 AWG Mild Steel ANSI 61 Polyester Powder Coated
	FG Option	Compression Molded Fiberglass
Rating:	Stainless Steel	NEMA 4X, IP67, -Resistant to Hose Directed Fluid and Corrosion
	Painted Steel	NEMA 4, IP66
	Fiberglass	NEMA 4X, IP66
	Suitable for Class 1 Division 2 Locations	
Temperature Range:	-55 to +85°C (-67 to 185°F)	
Door Closure:	Steel	3/4 Turn Twist Lock
	Fiberglass	Snap Latch Quick Release

Optional Cord Grips
Material:	Nylon Cord Grip with Zinc Plated Steel Washer
IP Rating:	IP68
For Cable Size:	0.17"-0.22" Cable Diameter
Location:	Enclosure Bottom

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Mechanical Specifications

Channels	Average Dimensions	Drawing Ref.	Weight
1-4 Channels	6"x6"x4" Average	XS-S1 (Size 1)	5 Lbs. (2.27 kg)
5-8 Channels	8"x6"x4" Average	XS-S2 (Size 2)	8 Lbs. (3.63 kg)
9-12 Channels	12"x10"x8" Average	XS-S3 (Size 3)	10 Lbs. (4.54 kg)
13-18 Channels	14"x12"x8" Average	XS-S4 (Size 4)	19 Lbs. (8.62 kg)

Refer to Mechanical Drawing for More Information

Ordering Guide

CMCP300XX	-XX	-XX	-XX	Description
SS				NEMA 4X, IP67 Stainless Steel Enclosure
PS				NEMA 4, IP66 Painted Steel Enclosure
FG				NEMA 4X IP66 Fiberglass Enclosure
	1-18			Specify Channel Count (01 through 18 Channels))
		-01		Internal (Accessible from Inside Only)
		-02		External (Accessible from Outside Only)
			-00	No Cable Entries
			-CG	Cord Grips Installed

Notes

For a shorter delivery time, consider ordering commonly stocked BNC boxes.
Stocked enclosures include 1, 2, 4 and 6 channel systems (-01, -02, -04 and -06).

Example Part Number

CMCP300FG-06-01-CG
6 Channel BNC Junction Box (6 Inputs / 6 Outputs)
Internal BNC Connections (Behind Door)
Cord Grips Installed in Bottom

Images

CMCP300SS-04-01-00
Stainless Steel NEMA 4X, IP67

CMCP300PS-04-01-00
 Painted Steel NEMA 4, IP66

CMCP300FG-06-01-00
Fiberglass NEMA 4X, IP66

-CG Cable Entry Option

Breakthrough Liquid Tight Cord Grip (IP68)