

## CMCP300 Series Individual BNC Output Junction Boxes



### Features:

- Connect Up to 18 Sensors
- Individual BNC Outputs
- Dual Output Sensor Compatible
- IP66, NEMA 4/4X Rated
- Fiberglass, Painted Steel or Stainless Steel
- 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 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 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:**  
FG Option            Compression Molded Fiberglass  
PS Option            14 AWG Mild Steel ANSI 61 Polyester Powder Coated  
SS Option            14 AWG 304 Stainless Steels

**NEMA Rating:**  
FG and SS            NEMA 3R, 4, 4X, 12 and 13  
PS                      NEMA 4, 12 and 13  
Suitable for Class 1 Division 2 Locations

**IP Rating:**  
IP67  
Resistant to Hose Directed Fluid and Corrosion

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

**Door Closure:**  
Fiberglass:            Snap Latch Quick Release  
Steel:                    3/4 Turn Twist Lock

**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

**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**

| CMCP300 | -XX | -XX  | -XX | -XX | Description                                    |
|---------|-----|------|-----|-----|--|
|         | -FG |      |     |     | NEMA 4X Fiberglass Enclosure                   |
|         | -PS |      |     |     | NEMA 4 Painted Steel Enclosure                 |
|         | -SS |      |     |     | NEMA 4X Stainless Steel Enclosure              |
|         |     | 1-18 |     |     | Specify Channel Count (01 through 18 Channels) |
|         |     |      | -01 |     | Internal (Accessible from Inside Only)         |
|         |     |      | -02 |     | External (Accessible from Outside Only)        |
|         |     |      |     | -NE | No Entries                                     |
|         |     |      |     | -CG | Cord Grips Installed                           |

**Notes:**

For a shorter delivery time, order 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:**



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



**-PS**  
 Painted Steel NEMA 4 Option



**-FG**  
 Fiberglass NEMA 4X Option



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