



CMCP300B
Four Channel Passive Buffer Module
Manual

Rev. A

Introduction

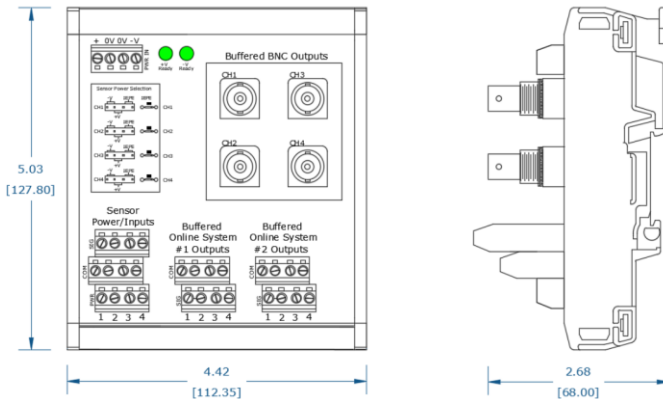
The CMCP300B Four Channel Passive Buffer Module can accept up to four 2 or 3 wire sensors and can provide power to various Accelerometers, Proximity Probes and Speed Sensors. Each channel can be independently configured to allow the use of 2 or more different sensors. Selectable constant current power is provided for all IEPE style accelerometers and dual power supply connections allow for +24V and -24V to be used simultaneously to power different sensor types. Passive Buffered Outputs are then provided via BNC, for portable instruments, and terminal block for hardwired system. A total of 3 outputs are provided for each input signal.

****Two Isolated Power Sources Are Required for Both +24V and -24V Operation****

Features

- Four (4) Inputs
- Three (3) Passive Buffered Outputs Per Input
- Allows Simultaneous Connection of Accelerometers, Proximity Probes and DC Powered Sensors
- BNC Buffered Output Per Channel
- Two (2) Buffered Outputs Per Channel Available on Screw Terminals
- Onboard Constant Current Power for IEPE Sensors
- Accepts Dual Power Supplies (+24V and -24V)
- DIN Rail Mountable
- Power OK LED Indicator
- Compact Size

Layout and Dimensions



Jumper settings and input/output locations

Power Input
Apply +24VDC, -24VDC or Both As Required for Sensor Power. Refer to sensor specifications for more information



Output Signals

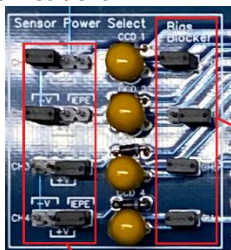
Input Signals

Setup

The CMCP300B has two rows of jumper pins to select the type of sensor input. You will need to set the jumpers as needed for the type of sensor you are using.

DC power will need to be supplied and must also match the sensor specifications (+VDC, -VDC or +/-VDC).

Jumper Positions



Block DC Bias Voltage to Sensor: On
Send DC Bias Voltage: Off

Jumper Position:
-24VDC Powered Sensors: Left
+24VDC Powered Sensors: Center
IEPE Powered Sensors: Right

Procedure

1. Set Jumper Positions (+VDC, -VDC or IEPE)
2. Set Bias Blocker Jumper to On or Off (Off if input signals area already powered, off if they need to be powered)
3. Connect DC Power Source (+24VDC, -24VDC or +/-24VDC as required)
4. Connect Input Signals (Terminals labeled SIG, COM, PWR)
5. Connect Output Signals (Terminals labeled SIG and COM)

Technical Specifications

Model Number:	CMCP300B
Electrical	
Number of Inputs:	Four (4)
Input Connection:	Screw Terminals, 14-22 AWG
Outputs Per Input:	3 (2 Terminal Block Outputs and 1 BNC Output)
Power Input:	+24VDC and/or -24VDC
Power Connections:	Screw Terminals, 14-22 AWG
Sensor Power Options:	+24V, -24V and +24VDC IEPE (Jumper Selectable)
Constant Current Power:	4.2mA (Jumper Selectable, On or Off)
Power Indication:	Green LED (+V Ready, -V Ready)
Environmental	
Operating Temperature:	-40 to +105°C (-40 to 221°F)
Housing Material:	Polyamide
Housing Color:	Black/Gray
Certifications:	RoHS and CE Compliant
Mechanical	
Dimensions (HxWxL):	4.42"x2.13"x5.03" (112x54x128 mm)
Weight:	207g (7.3 Ounces)
Mounting:	Din Rail (TS32/TS35)

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