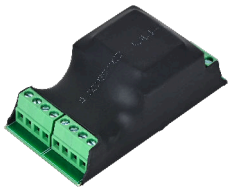
Current Boosting Stage

Turns Weak Control Signals into Powerful Drive

PRODUCT DATA

GENERAL INTRODUCTION

This module is a 3-channel independent current boosting and signal isolation (Buffer) board, designed to bridge the gap between sensitive control systems (PLCs, microcontrollers) and high-current industrial loads. Built on the common-collector (Emitter Follower) architecture, it amplifies the current capacity of input signals while maintaining unity voltage gain. With 3 completely isolated channels, it eliminates crosstalk, protects smart sensors from overloading, and reliably drives heavy loads such as motors, relays, or solenoid valves. Its compact design optimizes panel space and significantly reduces assembly costs.



Key Feature:

High-current buffer stage to amplify current and drive heavy loads.

ADVANTAGES

◊ **Ultimate Drive Power & Absolute System Protection**

Transform weak control signals into massive operational energy with safety and high efficiency. This module acts as an advanced protective shield, isolating your smart processors and sensors while driving heavy loads and motors effortlessly.

◊ **Amazing Triple Versatility: More Efficiency, Less Cost**

Control 3 completely independent paths simultaneously from a single compact board! It offers total independence to prevent signal crosstalk and ensure reliability, while smartly saving wiring space and assembly costs to make your project more professional.

TECHNICAL SPECIFICATIONS

GENERAL

Model	EPL-CBS
Product Name	Current Boosting Stage
Country of Origin	Türkiye
Conformity	CE

ELECTRICAL RATINGS

Supply Voltage	230 VAC - 50/60 Hz
Power Consumption	3.2 VA
Input Voltage Range	0 - 10 V DC
Output Voltage Range	0 - 10 V DC
Max Input Current	20 mA (Per Channel)
Max Output Current	100 mA (Per Channel)

TERMINAL CONNECTIONS

⏚	Chassis Ground
~ ~	230 VAC Input
0 V	0V DC / GND (Common)
IS_1, IS_2 ,IS_3	Sensor 1 (IN), Sensor 2 (IN), Sensor 3 (IN)
0 V	0V DC / GND (Common)
OS_1, OS_2 ,OS_3	Output 1, Output 2, Output 3

ENVIRONMENTAL CONDITIONS

Operating Temperature	-10 °C _ +45 °C
Relative Humidity	≤ 90% RH (non-condensing)
Ingress Protection	IP-20

WIRING DIAGRAM & INSTALLATION

Terminal layout from left to right: Chassis, ~, ~ (230 VAC) - 0V, IS_1, IS_2, IS_3 - 0V, OS_1, OS_2, OS_3

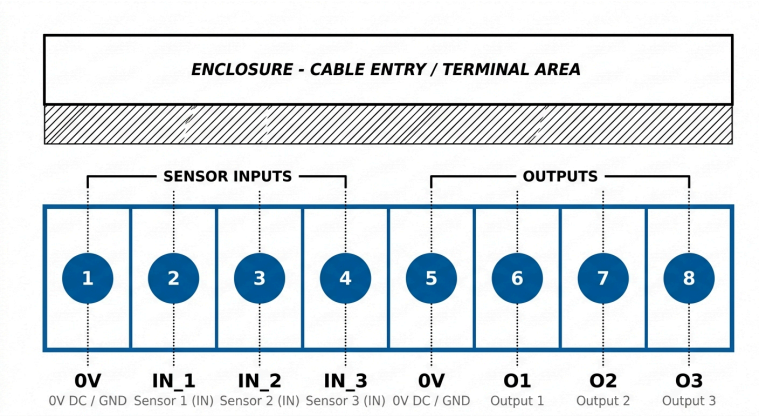


Figure 1 – Wiring Diagram

PHYSICAL DIMENSIONS

DIMENSIONS AND WEIGHT	
Dimensions (W x D x H)	42 x 85 x 32mm
Weight	250 g
Mounting Type	Duvar Montajı

Dimensional drawing to be prepared. [DRAWING]

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