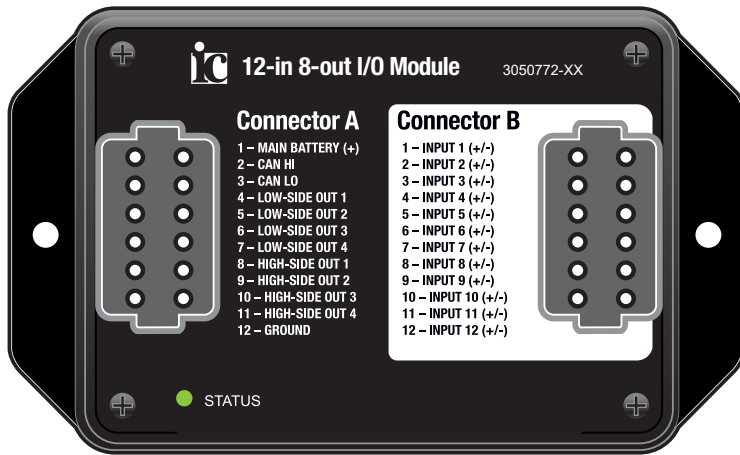# 3050772 12-in/8-out I/O Module

All module text is customizable

I/O SENSING AND CONTROL

Innovative Controls Inc. 3050772 12-in/8-out I/O Modules are used to monitor and/or control vehicle subsystems via a standard or custom J1939 Controller Area Network (CAN) Link message. Outputs are also not limited to only CAN message control. They may also be linked to native module inputs, whether singular or a combination of input states.
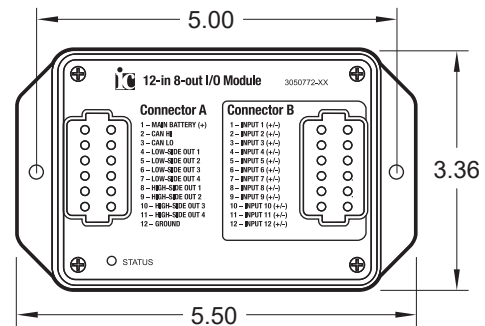
Active polarity of each of the 12 inputs of the module can customized to fit your specifications. Tri-state monitoring (HIGH, LOW, or OPEN) is also an option.

These versatile modules can also be implemented in distributed I/O or multiplexing systems, whether this system features a CAN-based Switch Bank or a Digital Touchscreen Display.

FEATURES

• **12-Pin Deutsch DTF15-12PA Deutsch Connector**
 - **1 CAN Network Port**
 - **4 Low-Side Outputs (1.3 A)**
 - **4 High-Side Outputs (0.7 A)**

• **12-Pin Deutsch DTF15-12PB Deutsch Connector**
 - **12 Customizable Inputs (Low-Side/High-Side/Tri-State)**
 - **Must be Specified – Individually Customizable**

• **-40°C to +85°C (-40°F to +185°F) AEC-Q100 Grade 3 Operating Temperature**

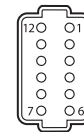• **Potted Module for Dust and Water Ingress Protection**

TECHNICAL SPECIFICATIONS

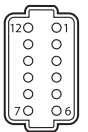|	
Operating Voltage	7.2 to 16VDC
Operating Temp. Range	-40°C to +85°C (-40°F to +185°F)
Storage Temp. Range	-40°C to +85°C (-40°F to +185°F)
Ingress Protection	IP67
Electrical Protection	Reverse voltage polarity protection on all connections
	Outputs are protected from reverse polarity, over-current, and voltage transients
	Power input is protected from reverse polarity, over-current, over-voltage, and voltage transients
Output Current Max	@°C:
	0.7A max per channel (Active HIGH) 1.3A max per channel (Active LOW)
Dimensions	5.5" wide x 1.77" high x 3.36" deep
Weight	15 oz

DIMENSIONS

CONNECTOR A
Deutsch DTF15-12PA

Terminal	Description
1	+12VDC (Batt) Power
2	CAN HI
3	CAN LO
4	CH1 OUT (-)
5	CH2 OUT (-)
6	CH3 OUT (-)
7	CH4 OUT (-)
8	CH5 OUT (+)
9	CH6 OUT (+)
10	CH7 OUT (+)
11	CH8 OUT (+)
12	GND

Mating connector is Deutsch DTP06-12SA with WP-2S wedgelock

CONNECTOR B
Deutsch DTF15-12PB

Terminal	Description
1	INPUT 1 (+/-)
2	INPUT 2 (+/-)
3	INPUT 3 (+/-)
4	INPUT 4 (+/-)
5	INPUT 5 (+/-)
6	INPUT 6 (+/-)
7	INPUT 7 (+/-)
8	INPUT 8 (+/-)
9	INPUT 9 (+/-)
10	INPUT 10 (+/-)
11	INPUT 11 (+/-)
12	INPUT 12 (+/-)

Mating connector is Deutsch DTP06-12SB with WP-2S wedgelock