

TECHNICAL SPECIFICATIONS

Supply Voltage	12-24Vdc Nominal (8-32VDC)
Standby Current	<50 mA
Communication BUS	J1939
Connector	Deutsch DT04-4P
Switch Life	3 million operations
Mounting Studs	#10-32 Steel
Keypad	Silicone rubber with polyurethane hardcoat
PC Board	1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +85°C
Thermal Shock	-40°C to +85°C According to table 2 of ISO16750-4
UV Protection	UVB 400 hours
Salt Spray	Per ASTM B117
Chemical Resistance	Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid
Ingress protection Rating	IP67/IP69K
Weight	150 grams (inserts excluded)

PART NUMBERS

Small Button Switchbanks

Description	IC Part Number
4 Button 15mm Insert Switchbank	3050934-01-XX
6 Button 15mm Insert Switchbank	3050934-02-XX
8 Button 15mm Insert Switchbank	3050934-03-XX
10 Button 15mm Insert Switchbank	3050934-04-XX
12 Button 15mm Insert Switchbank	3050934-05-XX

Large Button Switchbanks

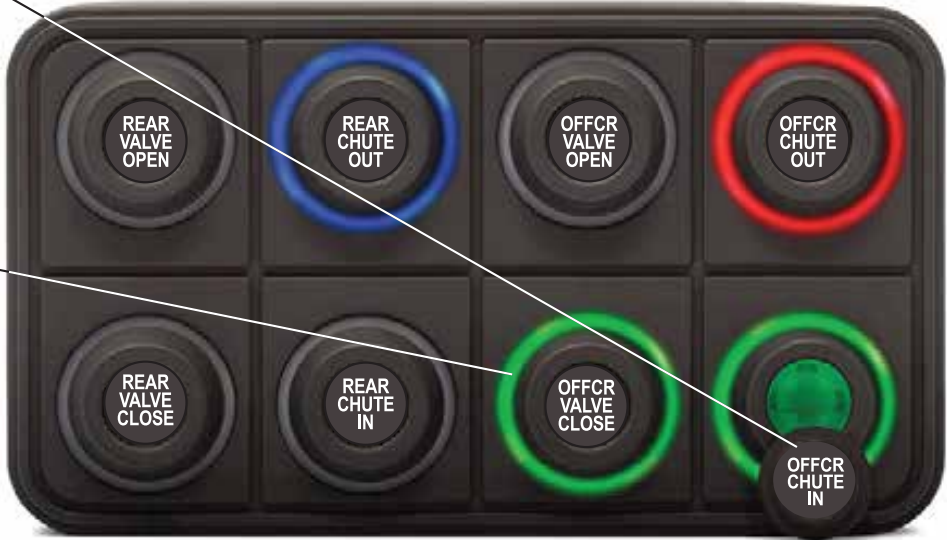
Description	IC Part Number
4 Button 24mm Insert Switchbank	3050934-06-XX
5 Button 24mm Insert Switchbank	3050934-07-XX
8 Button 24mm Insert Switchbank	3050934-08-XX

XX = Part number suffix provided after button customization



STANDARD FEATURES

- Custom printed icons and/or text
- LED backlit icons and/or text
- Reconfigurable keys
- Relegendable buttons
- Multicolor indicator rings
- LED state & status configurable
- ON/OFF, momentary, toggle & scroll
- Vertical or horizontal mount
- Flush or front mount



CAN BUS Pushbutton Control Switches

WATERPROOF
MULTIPLEXING
CONTROLS WITH
CUSTOMIZABLE
INSERTS

Innovative Controls CAN BUS Pushbutton Control Switches are keypads that utilize CAN J1939 protocol. These water and dust resistant controls feature keys with customizable 15mm or 24mm graphic and/or verbiage inserts and can be installed in both interior and exterior applications. RGB LED lighting behind and surrounding each key can be programmed to enhance functional user feedback.



SOFTWARE FEATURES

CAN and RS485 Keypad Addresses: Assign any valid CAN and RS485 address to the keypad. Communicate on either BUS simultaneously.

Event Status Transmission: The keypad can send messages to the BUS indicating a button press or a button release event has occurred. This confirmation allows digital systems to have the same input acknowledgements as that of the latching position of a mechanical switch.

Periodic Status Transmission: The keypad sends a continuous broadcast of messages indicating the press or release status of each button at that instance. The frequency of these messages can be adjusted in a wide range.

Periodic Heartbeat: The keypad sends a continuous broadcast of messages indicating it is functioning correctly. The frequency of these messages can be adjusted in a wide range.

HARDWARE FEATURES

IP67/IP69K Waterproof Rating: Guaranteed to be dust tight and sealed against water immersion to a depth of 1 meter for up to 1 hour. The IP69K rating provides protection against high pressure water at high temperature spray downs.

UV Protected: UVB 400 hours: Keypad is highly resistant to deterioration caused by exposure to sunlight.

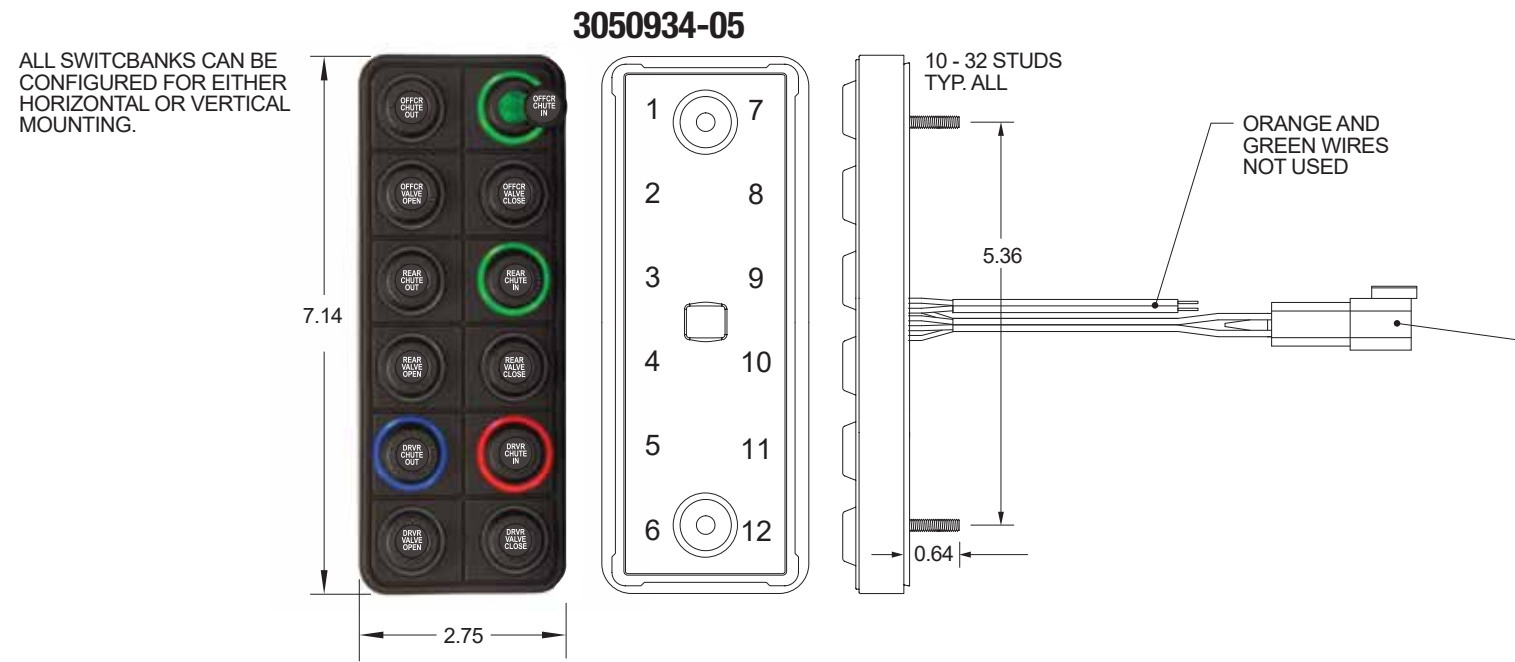
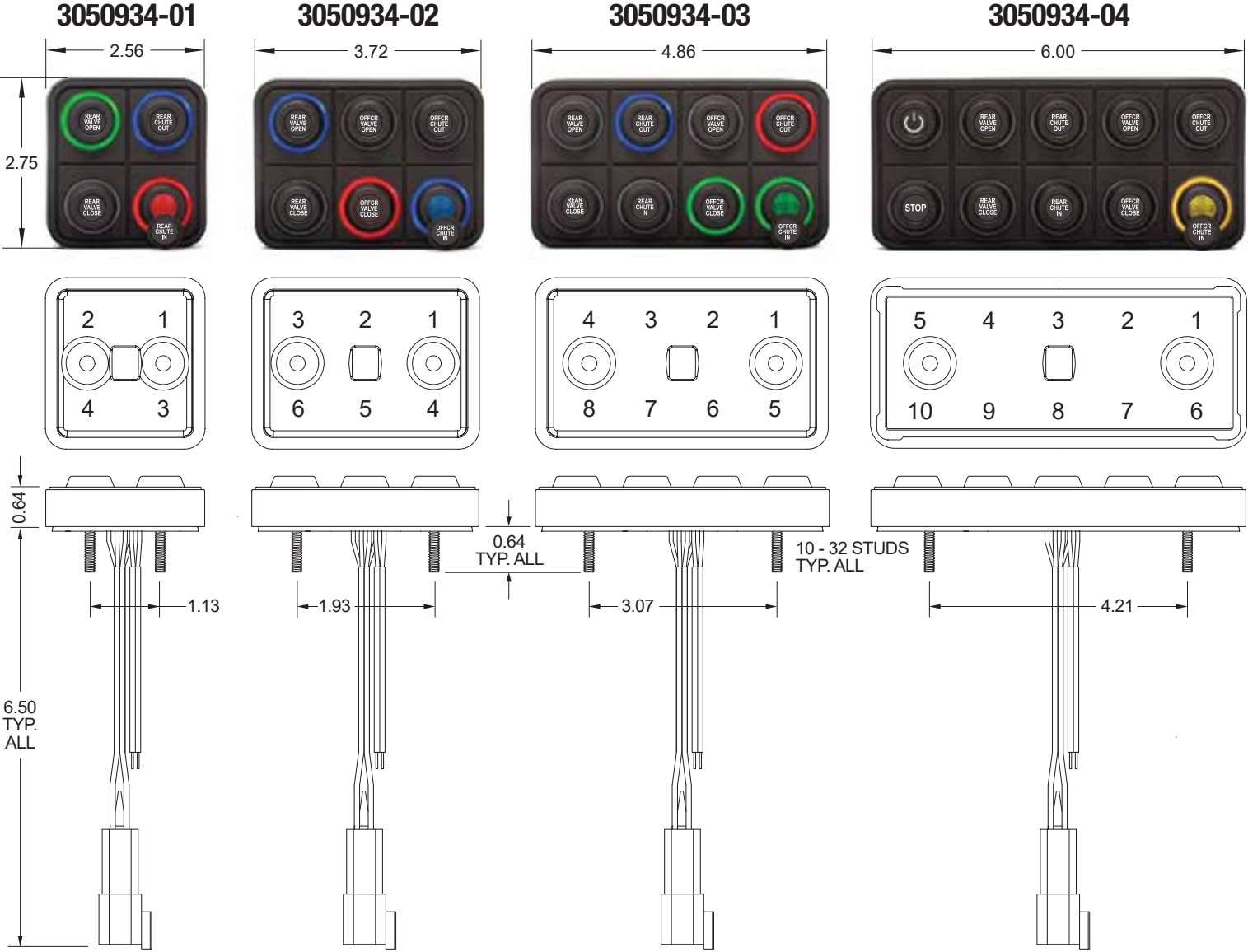
Customizable Inserts: Innovative Controls prints the graphic and/or verbiage button inserts in-house. We can customize keypads quickly.

Membrane Compensation Valve: This valve self-compensates the internal pressure within the keypad, alleviating mechanical stresses that can be produced by shifts in external temperatures.

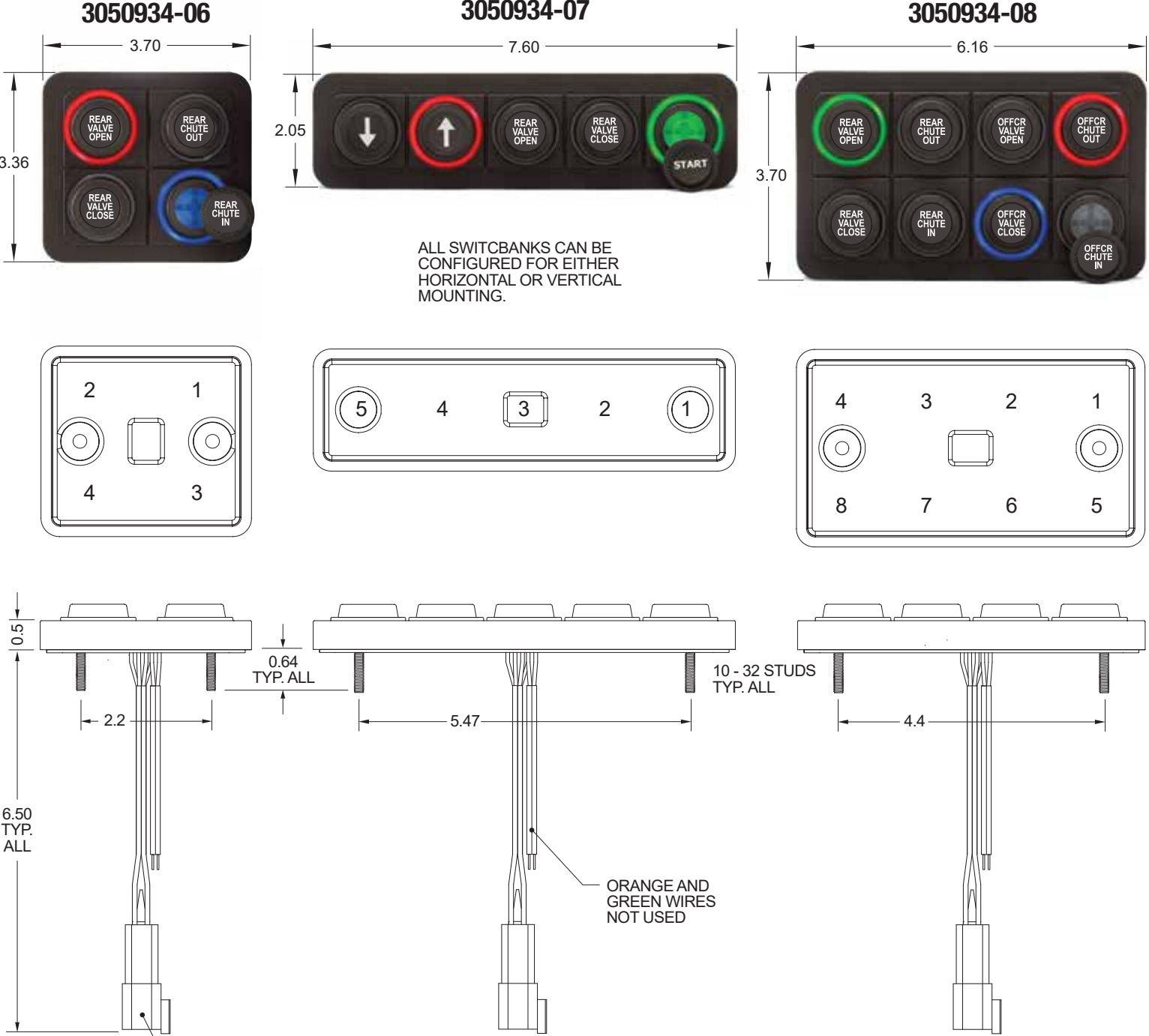
Symmetrical Design: Spacing between keys makes it easier to install multiple keypads alongside one another, in any orientation.

Molded Rubber Enclosure: The keypad is molded in such a way that it acts as a gasket, blocking liquids and preventing them from leaking in through the attachment holes located on the support upon which the keypad is installed.

SMALL BUTTON MODELS : 15 MM BUTTON INSERTS



LARGE BUTTON MODELS : 24 MM BUTTON INSERTS



ALL SWITCHBANKS CAN BE CONFIGURED FOR EITHER HORIZONTAL OR VERTICAL MOUNTING.

ALL PIN ASSIGNMENTS ARE THE SAME FOR ALL SWITCHBANKS

4 Pin Amphenol AT04-4P or Deutsch DT04-4P Connector		
Terminal	Wire Color	Description
1	Blue	CAN Low
2	White	CAN High
3	Black	Ground
4	Red	+12VDC Power

Mating connectors AT06-4S or DT06-4S