

# CAN Keypad CK-M12



- ▶ 12 standard buttons with color indicator rings
- ▶ 9 additional digital switch inputs
- ▶ Moveable button inserts
- ▶ CAN input / output

The CAN Keypad CK-M12 allows for simplification of the dashboard by offering 12 buttons and 9 additional wired inputs to be evaluated and transmitted via CAN bus to other devices on the bus. Each button has an individually addressable LED indicating ring that can be used to acknowledge a button press event, indicate status of a device, or alert the driver to a fault condition. No special configuration software is needed, all feedback logic is done by PBX, DDU or ECU. Each keypad is supplied with 15 black inserts, optional insert kits are also available.

## Application

Usage	PBX / DDU / ECU Interface
Temperature range	-40 to 85°C

## Technical Specifications

### Mechanical Data

Weight	280 g
Max. vibration	11 ms 30 G peak
Sealing	IP68

### Electrical Data

Power supply Vs	9 to 32 V
Average current draw	100 mA
Max current draw	250 mA

### Characteristics

Signal output	CAN
CAN transmit rate	100 Hz*
CAN baud rate	1 Mbaud*
TX ID	0x800*

RX ID	0x801*
TX Data	1 bit status for each input
RX Data	4 bit integer for each indicator color, 4 bit integer for brightness

\* Custom CAN IDs / baud Rate Optional Upon Request

Note: CK-M12 DBC file available for CAN configuration

## Connectors and Wires

CK-M12 Termination	Flying Lead 24AWG
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## Recommended Connectors

CK-M12	AS610-35PN
Mating	AS110-35SN

















## Wire Identification

























Wire	Function
Red	12/24 V Power
Black	Ground
Yellow	CAN high (CANH)
Green	CAN low (CANL)
White, Black Trace	Digital Input 1 activated by Ground
White, Brown Trace	Digital Input 2 activated by Ground
White, Red Trace	Digital Input 3 activated by Ground
White, Orange Trace	Digital Input 4 activated by Ground
White, Yellow Trace	Digital Input 5 activated by Ground















Wire	Function
White, Green Trace	Digital Input 6 activated by Ground
White, Blue Trace	Digital Input 7 activated by Ground
White, Purple Trace	Digital Input 8 activated by Ground
White, Grey Trace	Digital Input 9 activated by Ground

**Insert Kits**

Insert Road Race Kit	
	A/C
	ABS
	Alarm Reset
	Anti-Lag
	Arrow x 4
	Brake Spray
	Boost Decrease
	Boost Increase
	Brightness Down
	Brightness Up
	Close Menu
	Cool Suit
	Cooling Fan
	Day/Night Mode
	Drink
	Flash Hi Beam
	Fuel Reserve
	Fuel Reset
	Full Course Yellow
	Function Toggle
	Gearbox Emergency
	Hazard Flasher
	Heated Windshield
	Helmet Fan
	High Beam
	Horn
	Launch
	Low Beam
	Map Down
	Map Up
	Neutral
	Open Menu
	Page Down
	Page Up
	PDU Reset

Insert Road Race Kit	
	Pit Switch
	Power
	Power Steering Reset
	Pump Out
	Push to Pass
	Radiator Spray
	Rain Light
	Reset
	Reverse
	Select
	Starter
	Traction Control Down
	Traction Control Up
	Wet Mode
	Windshield Spray
	Windshield Wiper

Insert Drag Race Kit	
	A/C
	Alarm Reset
	Anti-Lag
	Arrow x 4
	Boost Decrease
	Boost Increase
	Brightness Down
	Brightness Up
	Burnout
	Close Menu
	Cooling Fan
	Day/Night Mode
	Function Toggle
	Hazard Flasher
	High Beam
	Horn
	Launch
	Line Lock
	Low Beam
	Map Down
	Map Up
	Nitrous Arm
	Nitrous Purge
	Open Menu

Insert Drag Race Kit	
	Page Down
	Page Up
	PDU Reset
	Power
	Pump Out
	Push to Pass
	Reset
	Select
	Starter
	Traction Control Down
	Traction Control Up
	Transmission Brake
	Windshield Spray
	Windshield Wiper

Insert Alpha/Numeric Kit	
A	V
B	W
C	X
D	Y
E	Z
F	!
G	-
H	+
I	0
J	1
K	2
L	3

Insert Alpha/Numeric Kit	
M	4
N	5
O	6
P	7
Q	8
R	9
S	10
T	11
U	12

**Installation Notes**

Installation on flat surface recommended	
Bolt size	#10-32
Tightening Torque	0.7 +/- 0.1 Nm

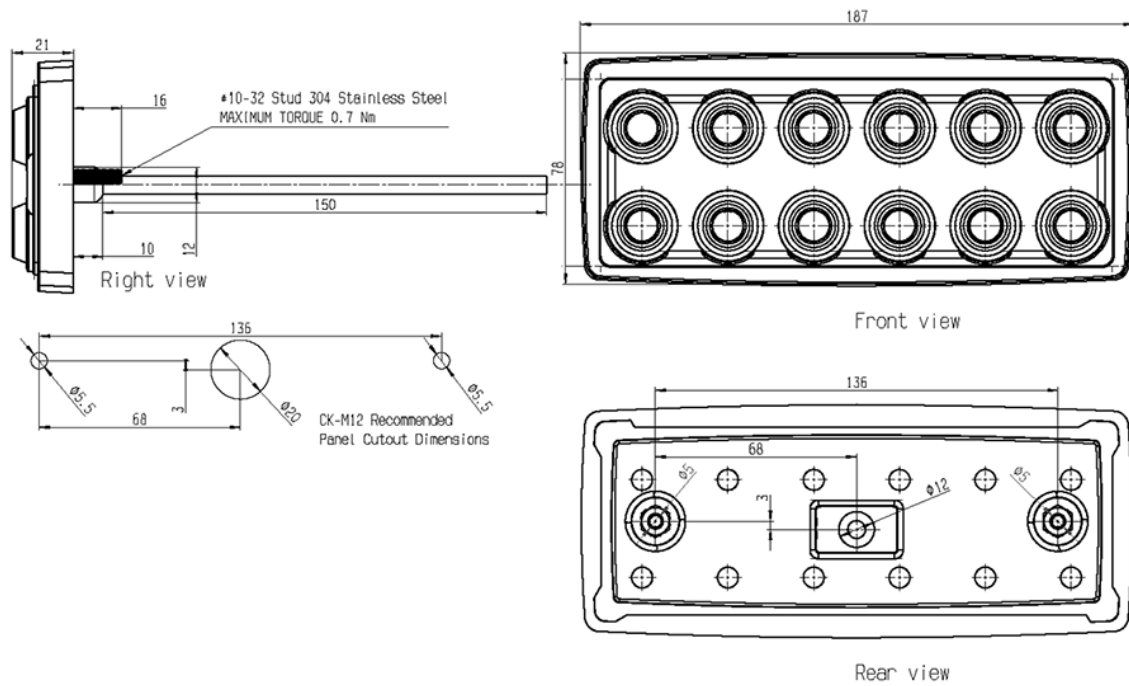
**Legal Restrictions**

The sale of this product in Mexico is prohibited. Due to embargo restrictions, sale of this product in Russia, Belarus, Iran, Syria, and North Korea is prohibited.

**Ordering Information**

<b>CAN Keypad CK-M12</b> Order number <b>F02U.V0U.328-04</b>
<b>Accessories</b>
<b>Insert Road Race Kit</b> Order number <b>F02U.B0U.022-01</b>
<b>Insert Drag Race Kit</b> Order number <b>F02U.B0U.023-01</b>
<b>Insert Alpha/Numeric Kit</b> Order number <b>F02U.B0U.024-01</b>

Dimensions



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