

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

| | |
|---------------------------|------------------|
| Size | 78 x 187 x 21 mm |
| Weight | 280 g |
| Max. vibration | 11 ms 30 G peak |
| Protection Classification | 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 |
|--------------------|-------------------|

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 |
| | Page Down |

| Insert Road Race Kit | |
|--|-----------------------|
|  | 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 |
| M | 4 |

| Insert Road Race Kit | |
|----------------------|----|
| 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

CAN Keypad CK-M12

Order number **F02U.V0U.328-04**

Accessories

Insert Road Race Kit

Order number **F02U.B0U.022-01**

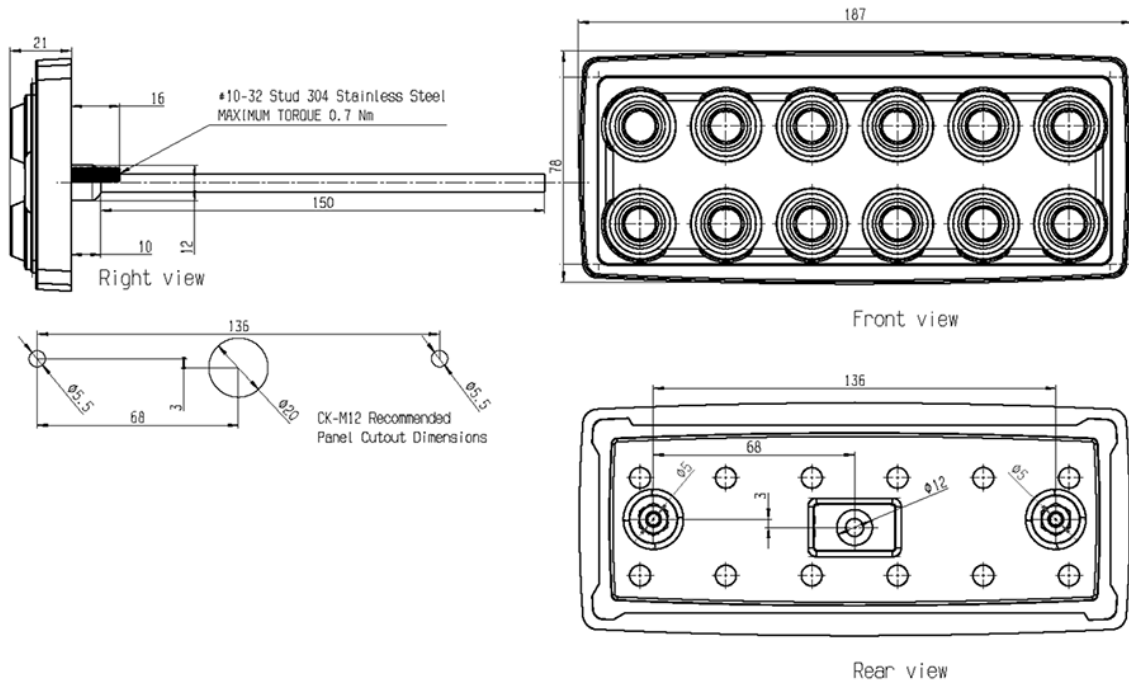
Insert Drag Race Kit

Order number **F02U.B0U.023-01**

Insert Alpha/Numeric Kit

Order number **F02U.B0U.024-01**

Dimensions



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