

KeypadModules

Product overview

KeypadModules are switch modules with a modular setup and an SAE J1939. They are dedicated for raw mobile environments due to their protection class IP68 and low power consumption.

The KeypadMaster hardware system is designed with a Master module that connects to other ECUs via SAE J1939 CAN 2.0B. The Master communicates with the Expansion Modules using LIN 2.0. Each Master can support up to seven Expansion Modules. This enables up to 64 conventional switches to be replaced. The Expansion Modules can be combined with our SwitchModulExpansion.

Single modules can be wired via sealed Deutsch connectors.

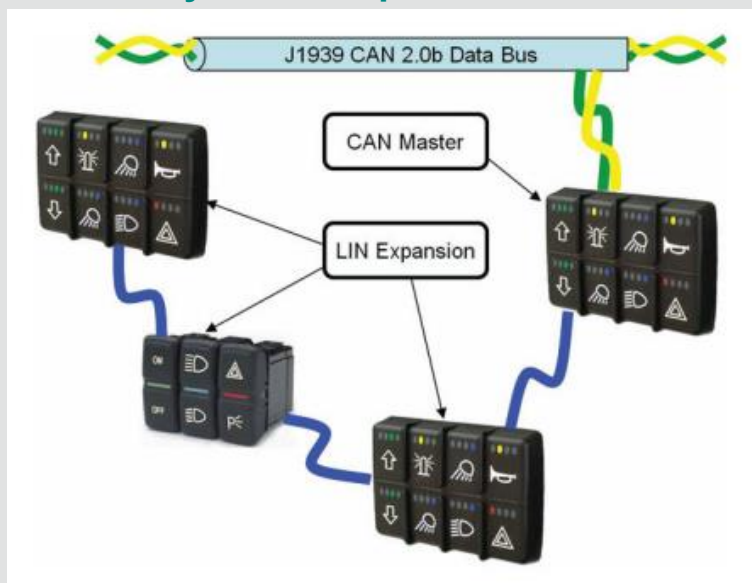
- Long life switches: 1 million cycles
- Four lighted indicators per button
- LED backlighting for icons
- Immune to SAE J1455 and J1113 power disturbances

The modules can be easily configured and b-plus offers a free software component for CODESYS® for these modules.



Illustration 1: Different versions of KeypadModule

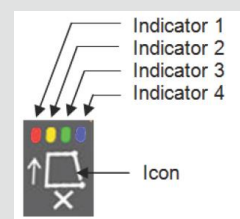
Modular system setup



Hardware specification

- Protocol:** SAE J1939 (Internal LIN2.0)
- Life time:** Up to 1000000 cycles
- Expansion:** Up to 7 expansion modules
- Protection class:** IP68
- Operating temperature:** -40 - +85°C
- Supply voltage:** 9 - 32 V DC

Button and LED indicators



KeypadModules

IP68 switch modules with
SAE J1939 interface

Dimensions

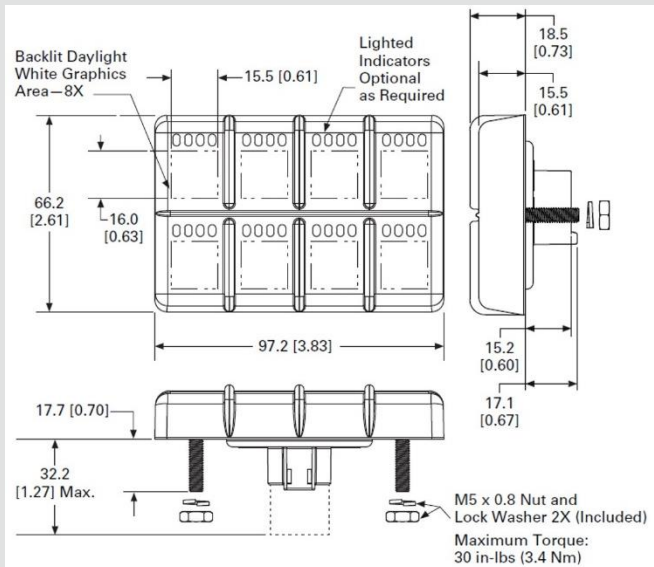


Illustration 1: Dimensions of KeypadModul with 8 buttons (in mm)

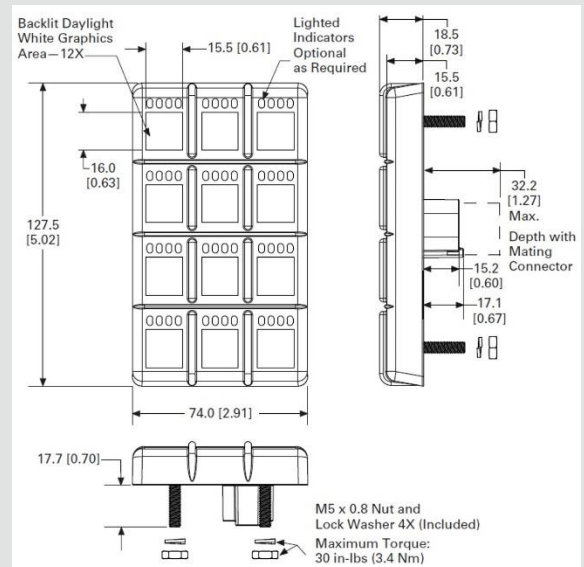


Illustration 3: Dimensions of KeypadModul with 12 buttons (in mm)

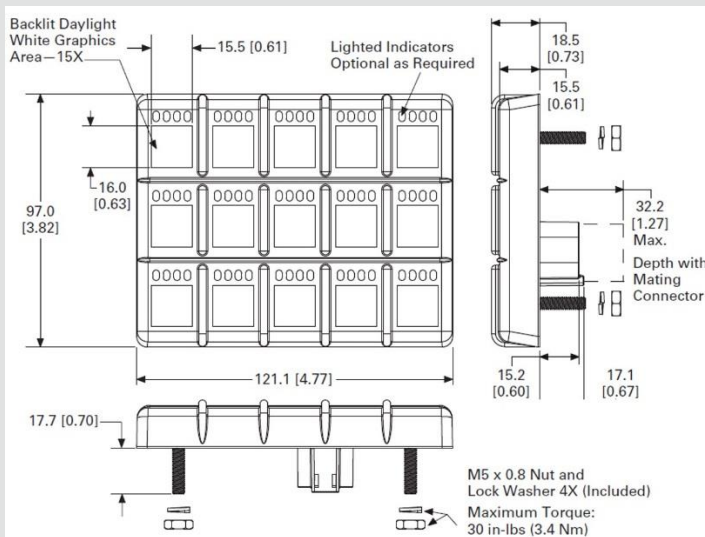


Illustration 4: Dimensions of KeypadModul with 15 buttons (in mm)

Wiring harness

PIN	Master	b-plus colors
1	Vbat	Red
2	Common	Brown
3	CAN high	Yellow
4	CAN low	Green
5	Common	Brown
6	LIN	Blue



Ordering information

Name	Order no.	Description
KeypadModulMaster 8 Buttons	B12500-KMM-001-2Z4T	Keypad module (2x4) for the connection to CAN (J1939) with LIN interface for SwitchModulExpansion, IP86, 1 000 000 cycles, -40..+85°C, 9..32 V DC
KeypadModulMaster 12 Buttons	B12500-KMM-001-4Z3T	Keypad module (4x3) for the connection to CAN (J1939) with LIN interface for SwitchModulExpansion, IP86, 1 000 000 cycles, -40..+85°C, 9..32 V DC
KeypadModulMaster 15 Buttons	B12500-KMM-001-3Z5T	Keypad module (3x5) for the connection to CAN (J1939) with LIN interface for SwitchModulExpansion, IP86, 1 000 000 cycles, -40..+85°C, 9..32 V DC
KeypadModulSupply 2m	B12504-KMS-100-2000	Cable set power supply and CAN bus for KeypadModulMaster, Length 2m