

SwitchModules

Product overview

The switch modules are equipped with a modular structure and its focus on the on-board area perfect for installation in commercial vehicles as switching modules.

The module concept consists of a master module that connects directly to the SAE J1939. Up to 7 expansion modules can be attached via a module integrated LIN 2.0 master in the bus. This enables up to 24 conventional switches to be replaced.

The individual switches can be equipped with different subactuators, whereby it can be utilized as a push-button or a switch key. The three rockers are clipped upon the module. They are available with or without a custom label.

Basically, this modules are equipped with a 4-color status indicator bar between the buttons and a separate lighting of the symbols (On, Off, Flash).

“Wake on CAN” or “Wake on switch” functions are implemented for a power saving operation.

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



Illustration 1: Master Modul with SAE J1939 Interface, with customized Rockers and 3 way switch keys

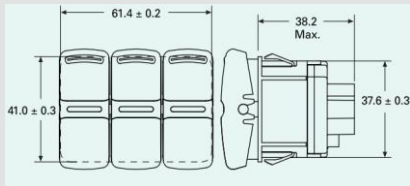
System setup:



SwitchModules

Modular Switch modules with
SAE J1939 interface

Hardware specification

Protocol	SAE J1939 (LIN2.0 internal)
Life time	Up to 300000 cycles
Expansion	Up to 7 expansion modules for up to 24 rockers
Protection Class	IP53
Operating Temp.	-40 - +85°C
Operating voltage	12/24 V DC
Dimensions (mm)	

Modular setup

Rocker

(customized engraving possible)

Subactuator

(push-button or switch keys)

Master/Expansionmodul

Order information

Name	Order number	Description
SwitchModulMaster	B12400-SMM-001-E321	Switch module Master for the connection to CAN (J1939) with LIN for the SwitchModulExpansion, IP53, 300 000 Cycles, -40..+85°C, 12 VDC
SwitchModulMaster	B12400-SMM-001-E323	Switch module Master for the connection to CAN (J1939) with LIN for the SwitchModulExpansion, IP53, 300 000 Cycles, -40..+85°C, 24 VDC
SwitchModulExpansion	B12401-SME-001-E322	ExpansionSwitch module with LIN, IP53, 300 000 Cycles, -40..+85°C, 12 V DC - SwitchModulMaster required
SwitchModulExpansion	B12401-SME-001-E324	ExpansionSwitch module with LIN, IP53, 300 000 Cycles, -40..+85°C 24V DC - SwitchModulMaster required
SwitchModulRocker	B12402-SMR-001-E32B	Set consisting of 3 Rocker for the SwitchModulMaster and SwitchModulExpansion - one set per SwitchModul -
SwitchModulRocker	B12402-SMR-002-E32B	Set consisting of 3 Rocker for the SwitchModulMaster and SwitchModulExpansion - one set per SwitchModul - - customized engraving -
SwitchModulDummy Rocker	B12402-SMD-001-7354	Blind cap (1 Rocker) for the SwitchModulMaster and SwitchModulExpansion
SwitchModulSubactuator	B12403-SMS-003-4043	Subactuator for the SwitchModulMaster and SwitchModulExpansion snap / snap / snap – one per rocker
SwitchModulSubactuator	B12403-SMS-004-4043	Subactuator for the SwitchModulMaster and SwitchModulExpansion push / snap / push – one per rocker
SwitchModulSubactuator	B12403-SMS-006-4043	Subactuator for the SwitchModulMaster and SwitchModulExpansion snap / - / snap – one per rocker
SwitchModulSupply	B12404-SMS-100-2000	Cable set power supply and CAN-Bus for the SwitchModulMaster, Length: 2 m
SwitchModulConnection	B12405-SMC-100-0025	Cable set Connection between SwitchModules, Length 0,25 m
SwitchModulConnection	B12405-SMC-100-2000	Cable set Connection between SwitchModules, Length 2,0 m