

## BSC Units

The BSC product line contains four types of control modules. Each device is an automatic boom section controller, the difference is the ability to remotely control the pressure, or automatically control the application rate based on pressure or flow measurements. The units handle 2 and 3-way electric valves (even high current consumption solenoid valves), master valve, regulation valve, pressure sensor, flow sensor and external switch. Speed information is received from the highly accurate GPS receiver of guidance system to avoid the wheel-proximity sensor and its calibration.

### Variants:

- BSC - Section control only
- BSC Plus - Section control and remote pressure control
- BSC Pres - Section control and pressure-based automatic application-rate control
- BSC Flow - Section control and flow-based automatic application-rate control
- BSC ISOBUS - Section control and flow-based automatic application-rate control over ISOBUS

## GENERIO

The display offers a very simple solution to configure and handle the BSC system. The monitor accesses the full functionality of the BSC module. The speed measurement is done with an external GPS antenna.



## BSC Application

BSC app is the application which controls the BSC and BSC Plus, for manual section control and remote pressure control.



## MachineryGuide

The MachineryGuide application can be connected to all BSC units to achieve more effective field work. When connected to the BSC unit, the application detects overlaps and automatically turns the sections on and off to minimize liquid waste.



## ISOBUS

The BSC control modules are available in ISO-BUS compatible version.





Controller functions:

|                                      | BSC | BSC Plus | BSC Pres | BSC Flow | ISOBUS |
|--------------------------------------|-----|----------|----------|----------|--------|
| Section valve control                | X   | X        | X        | X        | X      |
| Master valve control                 | X   | X        | X        | X        | X      |
| Regulation valve control             | X   | X        | X        | X        | X      |
| 2-wire and 3-wire support            | X   | X        | X        | X        | X      |
| Upgradable to solenoid valve control | X   | X        | X        | X        | X      |
| IP66 durable plastic case            | X   | X        | X        | X        | X      |
| Wireless (WiFi) interface            | X   | X        | X        | X        | X      |
| CAN interface                        | X   | X        | X        | X        | X      |
| Implement switch handling            | X   | X        | X        | X        | X      |
| Upgradable to single nozzle control  | X   | X        | X        | X        | X      |
| Pressure sensor handling             | -   | X        | X        | X        | X      |
| Remote pressure control              | -   | X        | X        | X        | X      |
| Tank-liquid level measurement        | -   | X        | X        | X        | X      |
| Application rate control             | -   | -        | X        | X        | X      |
| Flow sensor handling                 | -   | -        | -        | X        | X      |
| Upgradeable to single nozzle control | X   | X        | X        | X        | X      |

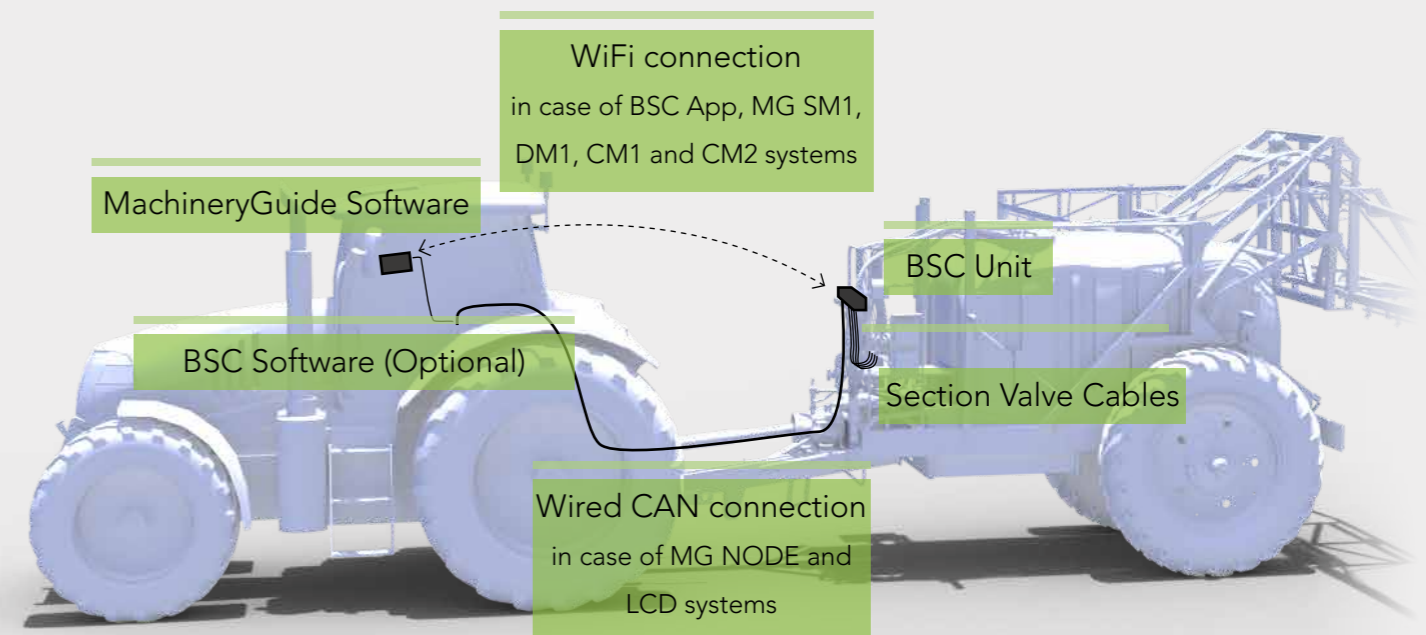
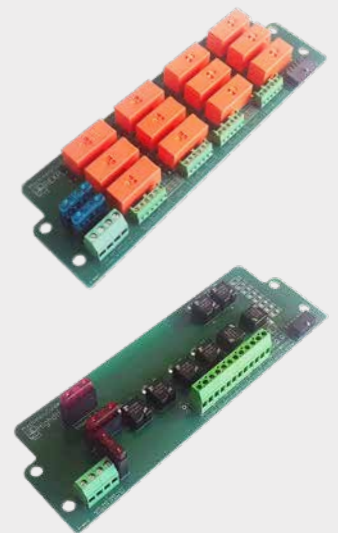
Add-on expansion boards

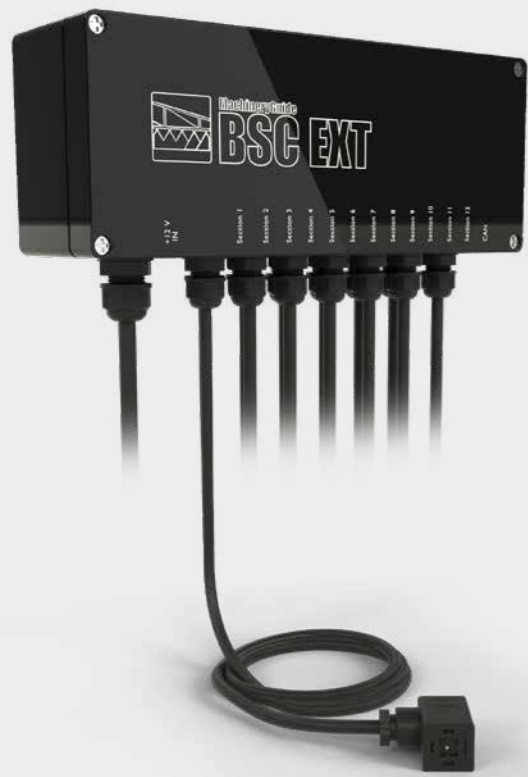
BSC REXP

Enhances the drive capability of a BSC control unit in two-wire section and master valve mode. Normally, a BSC can drive 7 outputs in two-wire mode, each output up to a maximum of 1 ampere load current. With the REXP board, all 14 outputs can be used in two-wire mode, with 2 amperes of load current.

BSC HIGHDRIVE

Allows a high current output for the BSC. It converts the BSC to use with solenoid-based section valves. Supports up to 8 outputs, each up to 5 amperes of load current.





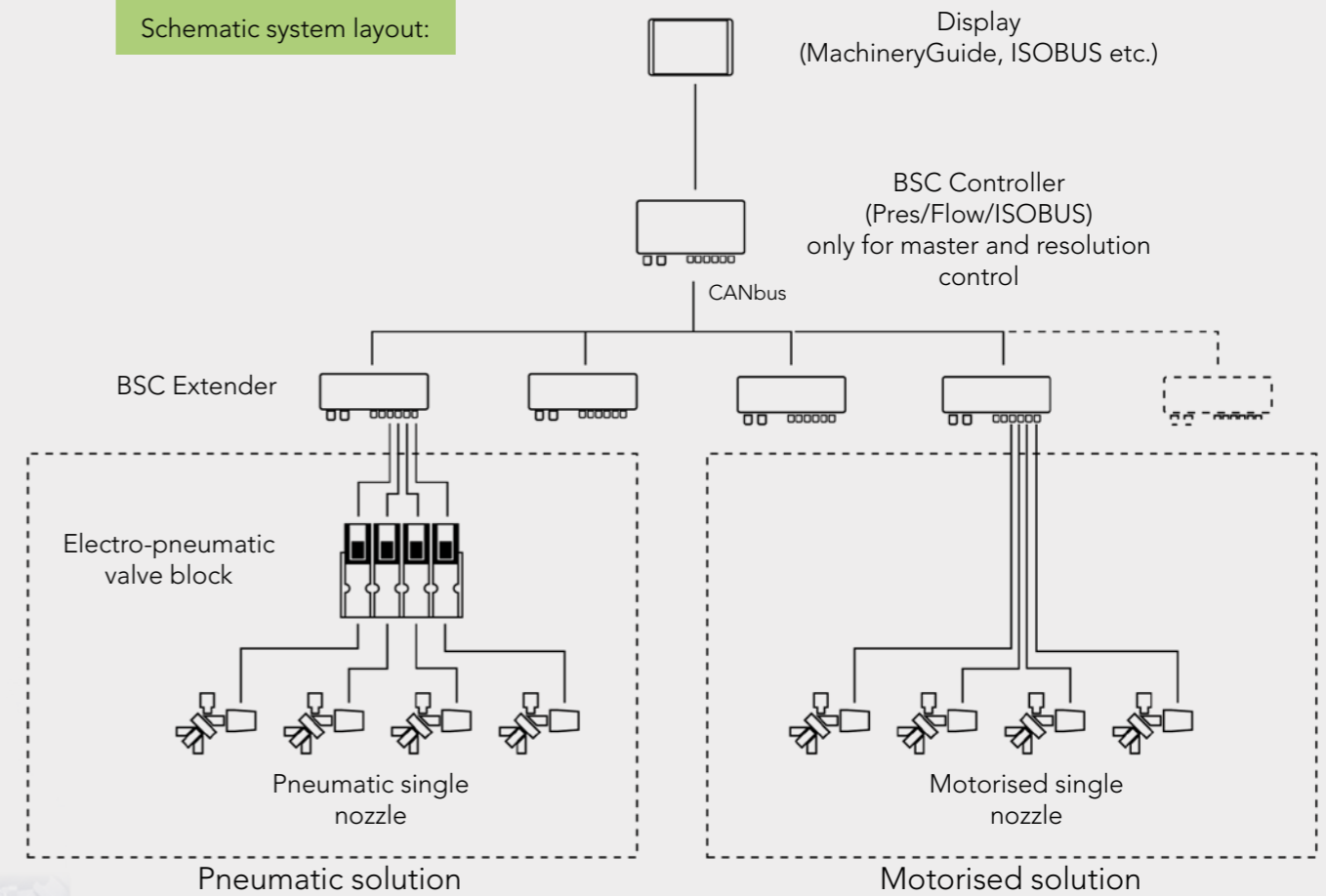
## BSC EXT module

With the BSC EXT extender module, the number of sections that is controlled by the BSC Controller can be extended. This offers a solution to handle large section numbers as well as single nozzle controlling. The ruggedness of CANBus ensures a reliable connection.

### Features:

- Each module has up to 12 output channels
- Supporting up to 100 output channels by connecting multiple extenders
- Up to 16 Extender modules can be connected to the CAN network at the same time
- 1 Amp output per channel
- Supports single nozzle control through electro-pneumatic and DC motoric valve solutions
- CANBus interface
- IP66 protection

### Schematic system layout:



## User Interfaces

Single nozzle functionality can be accessible with the MachineryGuide app or with any ISOBUS Universal terminal. Both solutions support up to 100 section numbers.



MachineryGuide

ISOBUS UT

