

Agriculture Control Module

SM-3X



Modular Architecture

Universal Compatibility (ISOBUS Ready)

Designed to fit many dry granular fertilizer spreader implements, the SM-3X provides a universal and reliable solution to control key functions, such as rate- and section control.

Modular and developed under ISOBUS protocol, it's customizable with the option of integrating into 3rd party systems or complementing a complete Topcon solution. And with an IP67 rating, the SM-3X controller is built to withstand the harsh conditions of agriculture.

ELECTRICAL

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|------------------------|--|
| Supply Voltage | 9 - 30V dc (24V operation requires external transient protection) |
| Supply Current | < 500mA (with no load) |
| Maximum Supply Current | 20A |
| Communications Ports | 2 x CAN 2.0B |
| EMC | ISO 14982 (Forestry and Agricultural Machinery) For Bluetooth option also: FCC CFR 47, ICES-003 and EN 301 489-17 (RED) |

PHYSICAL

| | |
|---|--|
| Sealing | IP67 |
| Vibration / Humidity / Operating / Temperature etc. | Conforms with Topcon Environmental Test Specification MIN_SP_001 (Details on request). |
| Dimensions | External: H 8.42in (214mm) x L 5.94in (151mm) x W 1.81in (46mm) Center of Mount Holes: H 5.35in (136mm) x L 3.54in (90mm) |

INPUTS / OUTPUTS

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|--------------------|--|
| Outouts | 30 Outputs Total: 18 x 5A H-Bridges, 8 of which are PWM capable 12 x 3A High Side Drivers Current / Power sensing on all outputs. Maximum switched current: 20A |
| Inputs | 25 Inputs Total: 5 x ID Inputs (settable in the loom) 4 x Low Speed Status Inputs 7 x High Speed (10kHz max) Inputs for encoders etc 9 x Multi-Function Inputs (0.5V, 4-20mA Digital). 10kHz max when used in digital mode |
| Hardware Interlock | Hardware interlock to all outputs |
| Sensor Power | Both protected +5V and supply voltages available for powered sensors |
| LEDs | Power / Status |

PROCESSOR

| | |
|----------------------|-------------------------------|
| Real-Time Processor | ARM M4 core running at 168MHz |
| Non Volatile Storage | 8M Byte |

