Dependable controls for proportional multi-function plow trucks

The Black Tip™ series from Certified Power Solutions offers fully proportional capabilities and multi-function control. Delivering effective operations with multiple joystick options, the Black Tip series comes in 1 or 2 joystick configurations that provide powerful performance and dependable accuracy for up to 4 devices. Using Certified Power Solutions Mako™ software, the Black Tip series additionally allows for programming the speed of each direction of motion individually without changing wiring or implementing hydraulic modifications.

HYDRAULICS • CONTROLS • REPORTING

Black Tip 108 in jump seat mount

Black Tip 108 in jump seat mount with EZ Spread™

Black Tip 210 pedestal mount

Black Tip 108 console mount
Black Tip™ Series
Proportional plow control systems

DEVICE CAPACITY
• BT 108 - up to 2 independent devices
• BT 210 - up to 4 independent devices
• Programmable safety features for interlock operation

PROPORTIONAL SIGNAL CAPACITY
• BT 108 - 8 independent PWM channels
• BT 210 - 10 independent PWM channels
• Frequency range from 40-450 Hz

AXIS AND RANGE OF JOYSTICK MOTION
• 1 or 2 axes of joystick motion: X and Y
• 27 degrees of motion available in each axis

JOYSTICK SIGNAL
• True Hall effect (magnetic) joystick with no mechanical contacts

JOYSTICK SELF TEST
• SafeStik™ automatically disables the axis if an axis fails during use
• Joystick diagnostics for each axis of motion is visible on LED
• Channel Safe™ detects and protects against open or short circuits in hydraulic drive channels

PLOW CONTROL INTERLOCKED FEATURES
• Hoist lock, hoist limit, plow, wing and blade lock (requires external sensor, key or switch)

MODE DISPLAY TYPE
• LED for hoist and plow diagnostics

SPREADER COMBINATION OPTIONS
• Compatible with all Certified Power Solutions spreaders (EZ Spread, Dual Spread™, SpreadSmart Rx™)

ACCESSORY SWITCHES
• Up to 5 Sprague® switches for accessory control (on/off or momentary function)

WARNING INDICATORS
• Up to 2 labeled and colored indicators integrated

OPERATING TEMPERATURE RANGE
• Minimum: –20 degrees Celsius; maximum: 70 degrees Celsius

POWER REQUIREMENTS
• Minimum: 11 Volts DC
• Maximum: 15 Volts DC
• Maximum: 10 Amps
• Internal fuse rated at 10 Amps

Black Tip 108 in jump seat mount
with EZ Spread (in cab)