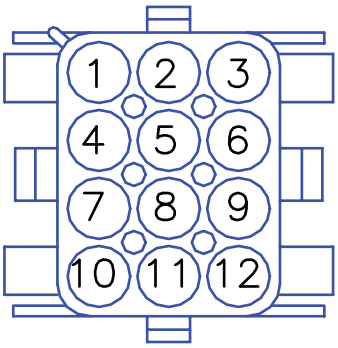
70 SERIES SPEED AREA MONITOR

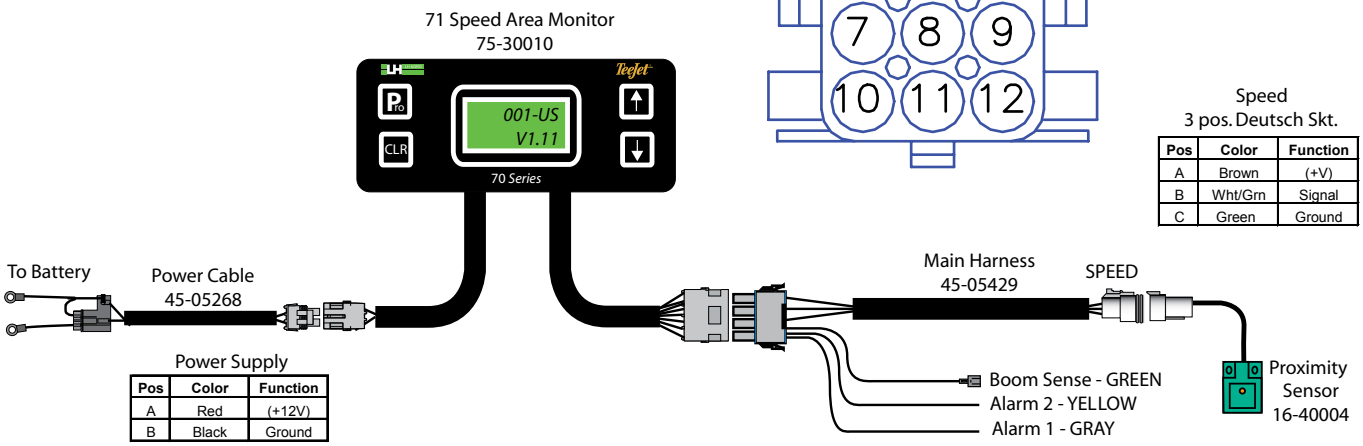
Connections Table and Assembly

Contact	Color	Description
1		
2	Wht/Grn	SPEED signal
3	Green	Boom Sense input (+12v = work)
4		
5	Gray	ALARM 1 output
6		
7		
8		

Contact	Color	Description
9	Brown	+12v Speed Sensor
10	Green	GND for speed sensor
11	Yellow	ALARM 2 output
12		

Note: Boom Sense +12v supply MUST share the same ground as the console.



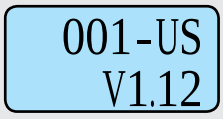
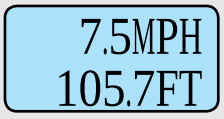
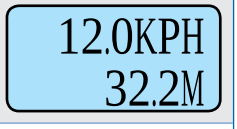


Speed
3 pos. Deutsch Skt.

Pos	Color	Function
A	Brown	(+V)
B	Wht/Grn	Signal
C	Green	Ground

Pos	Color	Function
A	Red	(+12V)
B	Black	Ground

Functionality

Function	Key	Description
1. Power on	Pro	The unit will power on and show the Info screen. Software name and Version are displayed. 
2. Power off	↑ and ↓	The unit will power off
3. Selection of working screen	↑ or ↓	The first line on display shows Speed (MPH) Second line is user selectable (Distance, Area, or Total Area) Example:000 Shows Upper line Speed (MPH / KPH) and Lower line Distance (FT / M) US Units  Metric Units 
4. Master On	Pro	The Pro key will act as the master switch and when pressed the console will begin to accumulate area and distance. *NOTES: The master switch must be off to enter into setup* *An external switch can be connected to the green boom sense wire to signal to the console to start accumulating.*

Program

Function	Display	Possible Actions	Comments
Access or Exit		Push Pro for 3 seconds	Master must be off
Width Setup	width setup	Pro to access Width setup ↑↓ to modify the width value	Master must be off
Speed Setup	speed setup	Pro to access Speed setup **Manual Calibration** ↑↓ to modify speed sensor calibration number **Auto Calibration** CLR to access auto calibration Mark off a known distance of 300ft / 100m Pro to Start auto calibration Drive the 300ft / 100m course Pro to End auto calibration Pro to Save calibration number	Master must be off When using the Auto calibration procedure it is best to mark a course on a surface that best matches real-time operations. For the best results repeat the Auto calibration procedure 3 times and take an average. Each run should produce a similar calibration number.

Alarms

Function	Display	Possible Actions	Comments
Alarm 1 Speed Distance Area	Alarm 1	Pro to access Alarm 1 ↑↓ to select alarm options (None, Distance, Speed, or Area) Pro to access Distance, Speed, or Area ↑↓ to adjust alarm value of Distance, Speed, or Area. CLR to clear alarm message during operation. CLR for 3 seconds to clear alarm value and reset Alarm.	NO audible alarm. Alarm 1 output (gray wire) is +12v when Alarm 1 is active. During real-time operation the alarm value must be exceeded for at least 3 consecutive seconds to activate alarm. Displayed Speed, Distance, or Area must be cleared or reduced below Alarm value to reset alarm.
Alarm 2 Speed Distance Area	Alarm 2	Pro to access Alarm 2 ↑↓ to select alarm options (None, Distance, Speed, or Area) Pro to access Distance, Speed, or Area. ↑↓ to adjust alarm value of Distance, Speed, or Area. CLR to clear alarm message during operation. CLR for 3 seconds to clear alarm value and reset Alarm.	Audible alarm. Alarm 2 output (yellow wire) is +12v when alarm 2 is active. During real-time operation the alarm value must be exceeded for at least 3 consecutive seconds to activate alarm. Displayed Speed, Distance, or Area must be cleared or reduced below Alarm value to disable alarm.

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