Mini-Line® Grade and Slope Control System HS301 Quick Guide



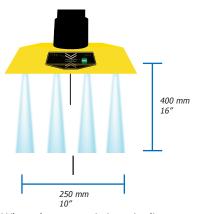
Set Up

When mounting the sensor, make sure that the working height is correct. The distance to the ground must be as shown below.

Ground Mode



Stringline Mode



When the sensor is in stringline mode the **large** display must be lit.

When the sensor is in ground mode the **small** display must be lit.

Push the MODE button to switch between the two.

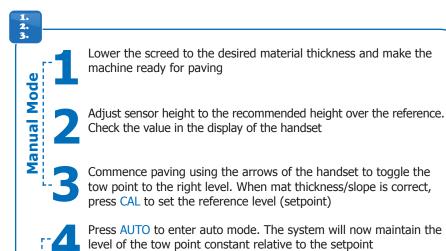
Important!

- Don't forget to mount the reference bail and check that it is positioned correctly on the sensor
- 2. The working height must be 400mm/16 inches (the distance between the bottom of the sensor and the reference)

Daily Operation

Mode

Auto



To increase mat thickness while paving in auto mode, press the arrows on the handset up or down. The change in mat thickness is displayed in the top display of the handset (only in auto mode)

When paving is completed, press MAN to return to manual mode, and the handset will stop controlling the tow point

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List of Functions

List of functions in auto mode



List of functions in manual mode

Setting	Shortcut	Display	Change	Confirm
Manual tow point adjustment				
Set the reference (setpoint)	1		CAL	
Switch between sensors			MAN (2 sec.)	
Minimum Pulse	MAN + MODE	P.U.L.		MODE
Sensitivity	MODE	5.E.n.		MODE
Working Window	CAL + MODE	<i>[]</i>		MODE
Dead Band	MAN + CAL	.d.b.		MODE
Switch to auto mode			AUTO	

Changing output during handset startup

	Shortcut	Display	Change	Confirm
Output (NPN or PNP)	AUTO	C.R.L.		MODE
	(at startup)			

Error Codes HS301

Sympton	n	Probable Cause	Appropriate Action
CAL	Flashes on top display when entering AUTO mode	Setpoint not entered before pressing AUTO	Enter setpoint
E.r. 1		Sensor out of range	Adjust sensor position
E.r.2.		Reference bail demaged or not installed	Check or replace reference bail
E.r.4		Sensor is faulty	Re-connect main power
E.r.S.		Using slope sensor on both sides	Adjust slope sensor to one side only
			Check working window
aue.		Sensor is out of working window	Check sensor mounting
		_	Clean up sensor field of view
5.0.5		No communication between HS301 and sensor	Check cables and connections

G220 and S298

Symptom	Probable Cause	Appropriate Action
Status LED - Slow flashes (2 short flashes per second)	No problems	
	HS301 missing	Check connection to HS301
Status LED - Fast flashes (4 flashes per second, on/off equal amount of time)	Sensor out of range	Adjust sensor position
	G220: Reference bail missing	Install reference bail

G221 an	d G224		
	(Red arrows flash alternately)	Target out of range	Adjust sensor position
	(Red arrows flash simultaneously)	Reference bail missing	Install reference bail
	(Green bar and red arrows flash)	No handset connected	Connect handset Check connections
(Red arro	ows flash alternately)	The sensor has lost sight of the wire. Tow point is locked	Adjust paver directionAdjust sensor position