

AC700 Material Sensor for Asphalt Pavers

A key precondition to laying a smooth pavement is using a material control system to maintain a constant head of material in front of the screed.

The AC700 Material Sensor monitors and signals the actual level of material to a controller. The controller will then be able to regulate the material flow to maintain a constant level of material.

The distance from the sensor to the hot mix is sent using a PWM signal to the machine controller, which controls the augers.

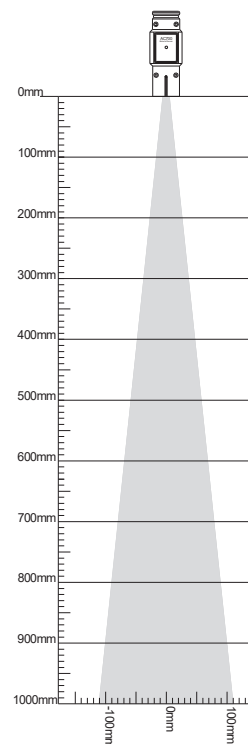
The sensor requires a minimum of maintenance, as it uses ultrasonic non-contact sensing, which eliminates the problem of clogging material on mechanical sensors and removes the need for supervision in use.

It has an LED indicator used for indication of sensor status.



AC700 Material Sensor

AC700 Material Sensor Specifications	
Part Number	S-50850
Version	T20
Application	Auger or Conveyor Material Buildup Sensor
Power Supply	12/24 Volt System (10-30 VDC)
Power Consumption	Typical at 24 VDC 70 mA Max. 200 mA
Dimensions (LxWxH)	130x53x67mm / 5.1x2.1x2.6in
Weight	0.35kg / 0.8lbs
House	Aluminium
Storage Temperature	-40°C to 85°C / -40°F to 185°F
Operating Temperature	-10°C to 85°C / 14°F to 185°F
Sensor Type	1x 125kHz Ultrasonic Transducer
Transducer Beam Width (-3dB full angle)	12° +/- 2°
Sensor Range	200-1000mm / 7.9-39.4in
Connector	6-Pin Screw, Male A: Vbat D: GND B: GND E: NC C: Output F: NC
Output	PWM Output Max 100mA



Ultrasonic Footprint