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Unit Specification

KE14001 Feeder Control Board

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GENERAL DESCRIPTION

The KE14001 Feeder Controller accepts the signal from an MCX130A1002 Ultrasonic Sensor or an ACX104C1167 Potentiometer Sensor and actuates an Electrical Displacement Control (EDC) on a hydrostatic pump for the auger on an asphalt paving machine. The KE14001 controls the height of the asphalt pile ahead of the screed. When used with an ultrasonic sensor and an external setpoint potentiometer, the distance between the sensor and the asphalt pile can be controlled from approximately 9" to 34".

The controller is a 3" wide by 4!s" long PWB assembly. It has two trim potentiometers to adjust the offset and gain and three LEDs to indicate +12V power, +8V regulator and output current. The +8V regulator terminal can be used to power the ACX104C1167 Potentiometer Sensor and/or to power an external setpoint potentiometer (such as the K00573 1-kilohm potentiometer) when the MCX130A1002 Ultrasonic Sensor is used. An external switch can be connected to change the gain from high to low. It has a 10-position terminal strip for external connections.

DIMENSIONS TECHNICAL DATA RATED VOLTAGE 6,35 (0.25) 114,3 (4.50) 101,6 (4.00) 12 Vdc **OUTPUT CURRENT** 150 mA 76,2 (3.00) 57,15 (2.25) **OUTPUT CHARACTERISTICS** 9,65 (0.38) 5,33 (0.21) INSIDE DIA 175 Dimensions of the KE14001 in millimeters (inches). 150_ MAX GAIN MAX GAIN MAX **CONNECTION DIAGRAM** 125 **OUTPUT CURRENT mA** +12 V POWER INDICATOR 100_ +8 V REG INDICATOR OFFSET ADJUSTMENT 75_ OUTPUT INDICATOR 50_ GAIN ADJUSTMENT 25 SETPOINT /OLTAGE = 2.0 Vdc SETPOINT VOLTAGE = 4.0 Vdc 0 CHASSIS GND POWER GND VALVE GND OFFSET CHASSIS GND **INPUT VOLTAGE**

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