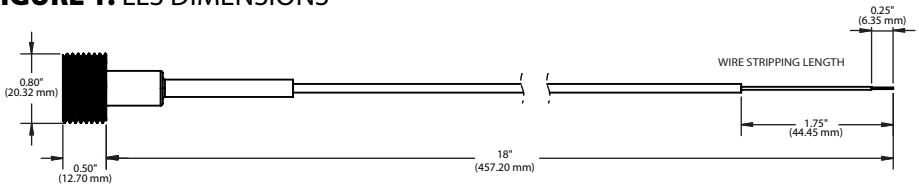
LIGHT LEVEL AND LIGHT LEVEL TRANSMITTER SERIES

Phone: 1-888-967-5224
Website: workaci.com

Installation & Operation Instructions

A/LLS, A/LLS-T

FIGURE 1: LLS DIMENSIONS



GENERAL INFORMATION

The A/LLS and A/LLS-T light level sensors and transmitters are used for applications such as turning on or off indoor or outdoor lighting based upon the amount of available light. The sensor can be mounted in a NEMA 3R rated enclosure. In darkness, the sensor has a resistance in excess of 1M ohms, versus a resistance of less than 1.5K ohms in bright light. The A/LLS-T incorporates a transmitter with the sensor to produce a non-linear 4-20 mA output signal. The A/LLS-T is calibrated for 4 mA in darkness and 20 mA in bright Light. Typically the 0-500 is used for outdoor parking lot lighting/signage applications and the 0-100 is used for indoor lighting.

MOUNTING INSTRUCTIONS

For optimal readings, follow these tips:

- Do NOT point the sensor towards the sky. Material(ie: bird waste, snow, etc.) can cover the eye.
- Point the sensors towards the North. Northeast and or Northwest is also acceptable. Try to avoid East, West, or South.

The ACI/LLS, is designed to be mounted in a weather-proof enclosure with ½" NPT threads. All ACI/LLS-T transmitters will be snap-track mounted.

FIGURE 2: LLS-T DIMENSIONS

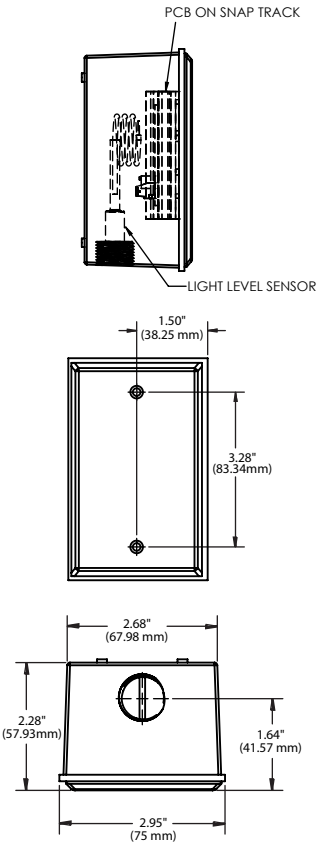


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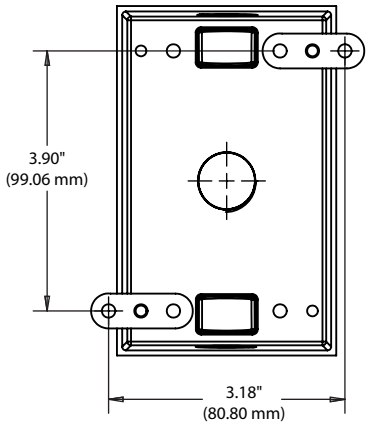
FIGURE 3: MOUNTING

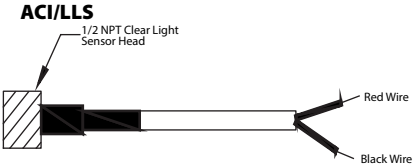


WIRING INSTRUCTIONS

The ACI/LLS-T must be powered with a 24VDC power supply, making sure to connect the wires to the correct terminal blocks since the units are polarity sensitive. Note that the ACI/LLS-T is not a loop-powered device, therefore a total of (3) wires must be used to send the signal back to the DDC Control System.

The ACI/LLS is calibrated for 20mA in bright light and 4mA in total darkness and is current limited to 22mA.

FIGURE 4: WIRING



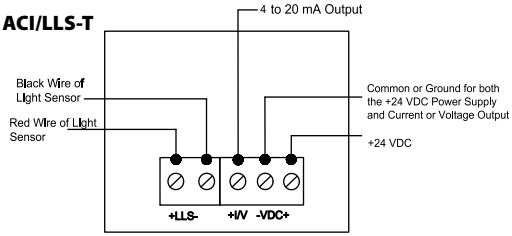


TABLE 1: ACI/LLS-T CONNECTIONS

TERMINAL BLOCKS	CONNECTIONS
+VDC	+24 VDC Supply Voltage
-VDC	Ground or common
I/V	Current output
+LLS	Red wire of sensor
-LLS	Black wire of sensor

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PRODUCT SPECIFICATIONS

NON-SPECIFIC INFORMATION	
Sensor Process Thread:	1/2" NPT
Sensor Operating Temperature Range | Humidity Range:	-40 to 70ºC (-40 to 158ºF) | 0-95% Relative Humidity, non-condensing
Sensor Continuous Power Dissipation:	80 mW
Sensor Maximum Voltage:	100V pk
Sensor Resistance @ 10 Lux (@25ºC):	Typical: 24K Ohms | Minimum: 12K Ohms | Maximum: 36K Ohms
Sensor Resistance @ 2 Foot-Candles (@25ºC):	Typical: 12K
Sensor Resistance @ Dark:	Minimum: 500K
Transmitter Supply Voltage:	24 to 35 VDC
Transmitter Input Impedance:	150K Ohms
Transmitter Output Current Signal Range:	4-20 mA (3 Wire)
Transmitter Maximum Load Resistance:	500 Ohms
Transmitter Light Level Measurement Range:	Model Dependent: 100 foot-candles (0-100) / 500 foot-candles (0-500)
Transmitter Operating Temperature Range:	35 to 131ºF (1.5 to 55ºC)
Transmitter Storage Temperature Range:	-0 to 160ºF (-40 to 71ºC)
Transmitter Operating Relative Humidity Range:	5 to 95% non-condensing
Transmitter Connections | Wire Size:	Screw Terminal Blocks | 16 (1.31 mm^2) to 26 AWG (0.129 mm^2)
Transmitter Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)

WARRANTY

The ACI LLS and LLS-T S temperature sensors are covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's website: www.workaci.com.

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NOTES

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