SKAN-A-MATIC®

CLAROSTAT
SENSORS AND CONTROLS GROUP

T21 Series

Photoelectric Amplifier Printed Circuit Board Mount T21104

Description:

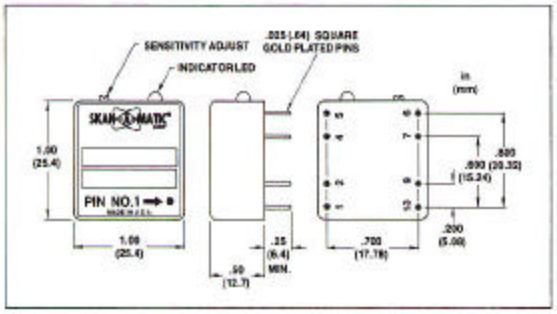
The T21104 photoelectric amplifier module is designed to amplify output from a photodetector to a level suitable for operating devices requiring DC voltage signal input. The output of the photodetector is taken as the input to the module. A Schmitt Trigger circuit within the module ensures positive switching of the output state to a completely "ON" or completely "OFF" condition. An internal sensitivity pot is used to adjust the input threshold current at which the amplifier will trigger. To ensure output stability a small amount of hysteresis (approximately 0.2 volts) is built into the circuitry. An indicator LED is provided to monitor amplifier state. It is ON when the photodetector is dark and OFF when photodetector is light. The module can be connected so that its output is energized when the photodetector is either LIGHT or DARK.

T21104

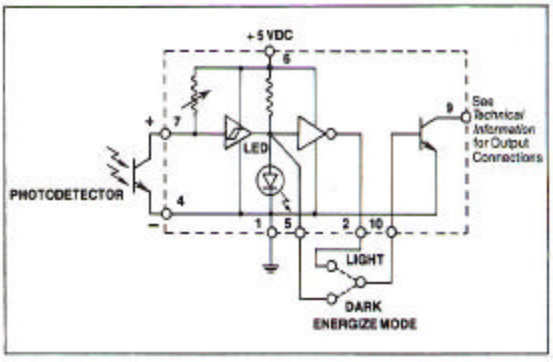
Specifications: (at 25°C)

INPUT	Threshold Voltage: 40% to 60% of supply voltage
OUTPUT	Open collector NPN transistor to switch up to 40 VDC at 100 mA max. Energized with photodetector either LIGHT or DARK depending upon connection.
RESPONSE TIME	See Standard Amplifier under Response Time Chart in *Technical Information*
POWER SUPPLY	4 to 6 VDC at 20 mA max., 5% regulation
SENSITIVITY ADJUSTMENT	15 turn
TEMPERATURE	Operating: 0° to 50°C Storage: -40° to 70°C

Dimensions:



Wiring Diagram:



Accessories:

B01001 MODULE SOCKET
Facilitates easy replacement of the module

T22063 FOUR CHANNEL AMPLIFIER PC BOARD
Four T21104 modules mounted on a 4½"X4½" circuit board with individual jumpers for LIGHT or DARK energize.

B01004 PC BOARD EDGE CONNECTOR
The B01004 edge connector mates with the above circuit board. It has a high impact plastic body with 22 gold plated contacts on .156" centers. For solder termination.