SKAN-A-MATIC®

CLAROSTAT
SENSORS AND CONTROLS GROUP

CONTROLS

High-Speed Amplifier with Power Supply T41300

Features:

- High speed
- Complete photoelectric control
- Output LED indicator
- 15 turn sensitivity adjustment
- Regulated DC power supply
- May be wired LIGHT or DARK energize
- Open collector output
- 115 or 230 VAC input

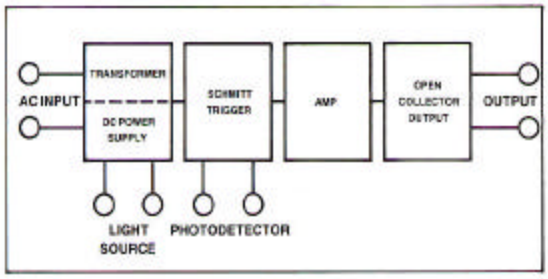
Description:

The T41300 is a complete photoelectric control designed to operate with one reflective skanner or thrubeam pair. The unit amplifies the photodetector signal, provides light source power and functions as an output switch. Only standard 115 or 230 VAC input is required. The unit has an open collector transistor output and is equipped with a red LED output indicator.

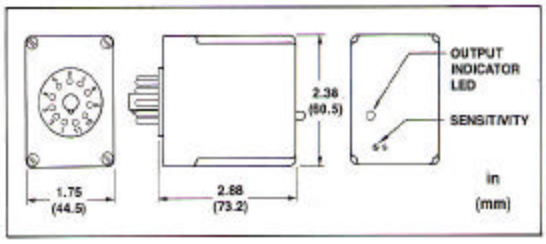
Specifications: (at 25°C)

POWER INPUT	115 or 230 VAC ± 10%, 50–400 Hz, 2 VA
LAMP POWER	5 VDC at 125 mA max. supplied by unit
LED POWER	125 mA max. Requires external resistor
SENSOR VOLTAGE	5 VDC at 1 mA
OUTPUT	Open collector, to switch up to 100 mA at 25 VDC max.
SENSITIVITY ADJUSTMENT	15 turn
RESPONSE TIME	See High Speed Amplifier under Response Time Chart in *Technical Information*
TEMPERATURE	Operating: 0° to 50°C Storage: –40° to 70°C
ENCLOSURE	11 pin plug-in module, .750" pin circle dia.; black molded plastic case. Socket not included.

Block Diagram:



Dimensions:



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T41300 Series

Compatibility With Sensors:

The T41300 is designed to be used with most Skan-A-Matic reflective skanners and thrubeam combinations. This amplifier should be utilized wherever high speed operation is required. When using LED light sources with these controls, a current limiting resistor must be used. This resistor is supplied with each LED skanner or LED thrubeam light source.

Model Selection Guide:

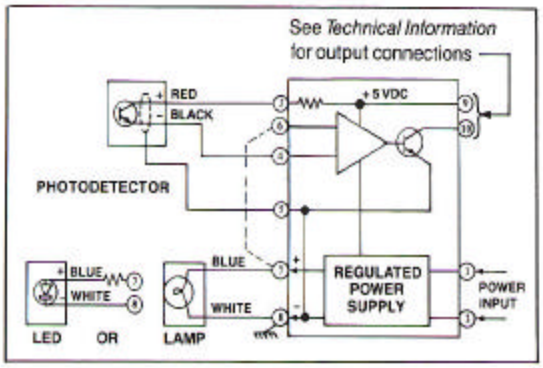
Part#	Power Input
T41300	115 VAC
T41300-230 VAC	230 VAC

Accessories:

SOCKET

Available — see *Accessories & Options, pg. 127.*

Wiring Diagram:



For **DARK Energize** operation, make **no** connection between pins 6 and 7.

For **LIGHT Energize** operation, jumper pin 6 to pin 7.

All system components should have same "machine ground".