

The Electroswitch Current

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Power Edition Vol. 6

Solid State Annunciator Target Relay Provides Highly Visible LED Indication

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New ATR Annunciator Target Relay from Electroswitch Improves Trip Indication with a Highly Visible LED, Fast Response Time, Small Panel Footprint, and Traditional Three Hole Mounting Configuration

Electroswitch introduces its new Annunciator Target Relay (ATR), a compact, reliable solid state replacement/alternative for electro-mechanical devices currently used in many utility applications.

Accepting an input signal from a variety of devices, the ATR will perform two basic functions. It will (A) illuminate a bright LED to indicate a Trip event, and (B) send signals to activate up to two other devices within the system. These devices could include alarms, LORs, or other relays. Once a Trip signal has been detected, the ATR will latch on, keeping the LED lit until it has been manually reset.

The target LED is highly visible even when viewed from extreme angles. It is designed for long life (>100,000 hours), available in a variety of colors and replaceable from the front of the unit.

The solid state ATR is dramatically smaller than previously available electromechanical devices.

As a solid state device, it also has the advantage of an inherently shorter Trip response time than electromechanical designs.

The ATR is resistant to shock and vibration, and is less expensive than competitive electromechanical annunciators. Traditional 3-hole mounting makes installation simple.

The initial offering senses voltage and has an operating range of 37-140 VDC. Trip time can be specified from 0.001 to 0.100



Model 686 solid state Annunciator Target Relay provides highly visible LED Trip indication in a small package.

seconds by the customer. Unless specified, a 0.005 second response time is preset.

When a Trip signal is received, a digital algorithm is used to validate the Trip with high reliability. The ATR's two normally open auxiliary contacts close, each providing up to 2 amps continuous current or 20 amps each for 1 second.

In its Tripped state, the LED remains lit. A non-volatile memory assures the ATR will retain its state even through power outages. The

ATR returns to normal only when the front panel reset button is pushed.

The customer can specify amber, red, green, blue, or white LEDs to help identify different functions or circuits.

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ATR Annunciator Target Relay Improves Trip Indication with a Highly Visible LED, Fast Response Time, Small Panel Footprint, and Standard Three Hole Mounting Configuration

The Electroswitch Series ATR is a solid state Annunciator Target Relay designed for use in a variety of utility applications. It provides a highly visible LED indication of a Trip operation and activates other equipment within the system such as alarms, LORs, and other relay devices.

How it Works

The ATR accepts a 37-140VDC Trip input signal from a variety of devices. When a Trip signal is received, the ATR performs two basic functions. First, it illuminates a bright LED indicating that a Trip signal has indeed been received. Second, it closes up to two normally open auxiliary contacts sending a two Amp @ 125VDC continuous (20A for 1 second) signal to user specified devices. An input signal, once received, is latched in memory and is maintained even through power outages until manually reset.

The target LED is highly visible even when viewed from extreme angles. It is designed for long life (>100,000 hours) and available in a variety of colors (amber, red, blue, green, or white) to help identify different functions or circuits.

Because the ATR is a solid state device it features a much shorter response time. It is less sensitive to shock and vibration than electromechanical devices and is also dramatically smaller. A traditional three hole mount configuration making installation simpler than alternative designs.

Theory of Operation

- See www.Electroswitch.com

Benefits

- Highly Visible LED Target - Even at Extreme Angles
- Provides Clear Indication of a Trip
- Faster Response Time
- Saves Panel Space
- Traditional Three Hole Mount Configuration
- Reduced Purchase and Installation Cost
- Easy to Use...No Special Operator Training



Make The Electroswitch ATR with Lighted Target Part of Your Trip Detection and Protection Scheme

Features

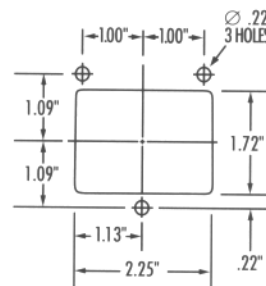
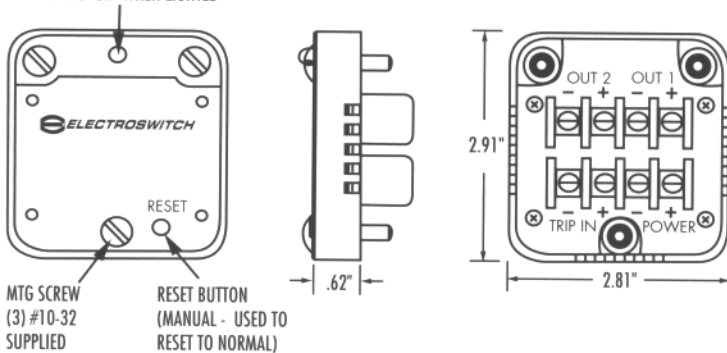
- Bright LED is Clearly Visible from all Viewing Angles in Front of the Panel
- Long Life LED (> 100,000 Hours), Available in Choice of Colors to Identify Different Functions or Circuits — Amber, Red, Blue, Green, or White — Field Replaceable From the Front
- Save Valuable Panel Space. The Entire Package is less than 3.0" Square about 0.5" High
- Low Power Consumption — 125VDC @ 14 mA (37 to 140VDC operation range)
- 2 Form "A" Auxiliary Contacts Rated 2 Amp @ 125VDC Continuous and 20A for 1 Second
- User Definable Trip Response Time from 0.001 to 0.100 Seconds
- Trip Inputs Validated with High Reliability Digital Algorithm
- Operating Temperature: -20°C to + 55°C
- Traditional Three hole Mounting Arrangement
- Approvals — ANSI/IEEE C37.90.1-1995, ANSI/IEEE C37.90.2-1995 — UL, CSA and CE Pending

Ordering Information

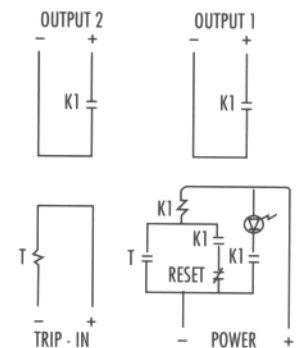
Model Number	Description
686-100	Voltage Sensing Annunciated Target Relay

Consult factory for other models.

FRONT LED - INDICATES ATR IS TRIPPED
 OUTPUTS ARE "ON" WHEN LIGHTED



PANEL CUTOUT
(FRONT VIEW)



WIRING DIAGRAM