



TR-A Relays

Self-Powered Transformer Relay With Pilot Contacts

- Unique patented built-in Class 2 Transformer power supply
- 1 AMP 30 VAC isolated contacts for status feedback or pilot lights
- Magnetically latching contacts
- Single moving part design
- Operates in any position
- Unmatched endurance
 - 200,000 (ON/OFF) cycles, at FULL LOAD
 - 1,000,000 (ON/OFF) cycles, at no load
- 20 amp 120 or 277 VAC operation
- UL, FCC approval for commercial and residential use



Overview

ILC TR-A relays provide a unique solution for remote control applications where panel mount relays are simply not possible. Because each TR-120A or TR-277A relay has its own built-in Class 2 power supply, TR-A relays may be located virtually anywhere without the need of remote mounted transformers or power supplies. Like all ILC relay components, TR-A relays are designed and manufactured to be the longest-lasting, most reliable relays available. By incorporating a unique single moving part (the contacts) design, both endurance and reliability are significantly enhanced. Compare our 200,000 ON/OFF cycle FULL LOAD and 1,000,000 no load ratings with any other relay in the industry. We're confident you will agree that for reliability and endurance, ILC TR-A relays simply can't be beat. TR-A relays are magnetically latched, requiring only a momentary rectified AC pulse to open or close the contacts.

Features

General Information

- UL Listed
- Mounts in standard 1/2" K.O. .865" – .875" diameter, 14 or 16 gauge material
- Operates in any position

Line Voltage Characteristics

- Contacts: SPST Maintained (permanent magnet latching)
- Termination: Color Coded, 6" Pigtail Leads
 - Line – 14 AWG, Black
 - Load – 14 AWG, Blue
 - Neutral – 18 AWG, White

Low Voltage Characteristics

- Single transformer secondary-relay operating coil – 15 VAC open circuit and 200 mA short circuit, maximum
- Brown and Yellow control leads, 20 AWG, 6"
- Two Orange status Feedback/pilot contact leads, 20 AWG, 6"
- Duty rating: Momentary
- Minimum activating pulse time: 50 milliseconds

INTELLIGENT LIGHTING CONTROLS, INC.

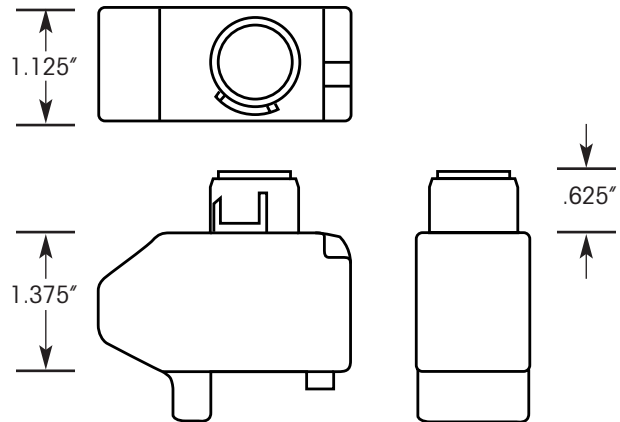
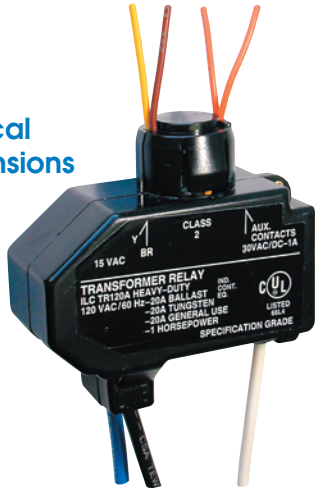
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Physical Dimensions



Specifications

Physical:

- Mounts in standard 1/2" K.O. .865" - .875"
- Operates in any position

Electrical:

- 120/277 VAC
- Motor Loads
 - 1 Hp @120VAC
- 20 amp Ballast 120 VAC
- Resistive loads: 20 amps 120/277 VAC

Operating Environment:

- | | |
|-------------------------|--|
| • Location | Interior Space |
| • Operating Temperature | 0° to 50° C (32° to 112° F) |
| • Relative Humidity | 10% to 95%
Non-condensing |
| • Atmosphere | Non-explosive,
Non-corrosive |
| • Vibration | Stationary application
NEMA Level A |

Certifications:

- UL

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How to Order

Ordering **TR-A Relays**
Order No. TR120A (sample)

TR-A _____

Power Supply
(120 or 277)