

## TCI-1: Single Circuit Telegraph Interface

### Features

- Single circuit telegraph interface
- User selectable 24 VDC, 100 mA, or NO/NC dry contacts
- Supports open index and closed index box formats
- Powered by System 3505 Prism LX™
- Accepts 100 mA, 24 VDC or dry contact input from Telegraph circuit
- Decodes any incoming speed without adjustment
- NFPA-72 Compliant, ETL Listed
- Decodes 1-6 digit boxes (except box numbers 1, 11, 111, 1111, 11111, and 111111)

### Ordering Information

**P/N 010001-0015:** TCI-1, Single Circuit Telegraph Decode

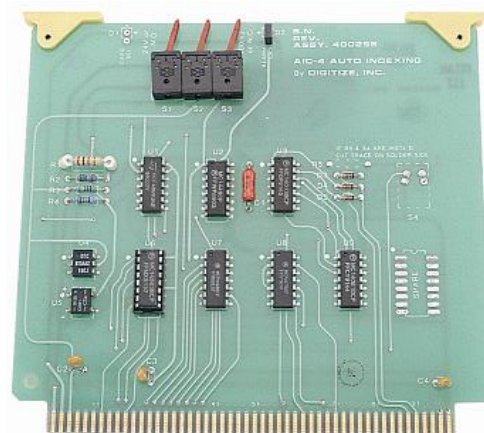
**P/N 000001-0029:** TCI-0, Telegraph Decode Option

**P/N 400295-0000:** Line Filter Board



### Product Information

The Telegraph Coded Input (TCI) allows the System 3505 Prism LX™ to receive an alarm via a coded telegraph alarm line. The TCI may be added to the System 3505 Prism LX™ with any other options. Use of line filter board (P/N 400295-0000) is recommended.



TCI-1 (AIC-4 Board)

The alarm can either be an open or closed index type. Boxes of the “open” or “closed” index can be mixed on the same alarm circuit. The inputs to the TCI can be any of the following: 100 mA., 24 VDC, NO or NC dry contact-

All TCI options convert coded alarm signals into the proper format for processing by the System 3505 Prism LX™, as well as providing screw terminals to which the coded alarm inputs may be connected. The TCI option, when connected to the telegraph circuit, will input the code to the System 3505 Prism LX™ for processing. The code will be processed and printed out on a round-by-round basis. The screen on the System 3505 Prism LX™ will display the incoming circuit number, as well as show the box decoding. It will also display that the alarm is an incoming telegraphic alarm. The audible alert will be activated.

After the first round of telegraphic code, the System 3505 Prism LX™ will display the message that was programmed for that particular telegraphic code number. At the end of the last round, the printer will log the top line of the programmed message along with date and time. When the box can be cleared from the system, the LED on the “clear” button will blink. To clear a telegraphic coded alarm, press the “clear” button when the LED is blinking.

This will clear the display, and the printer will log that the alarm was cleared along with date and time.

Cannot be used with TCI-6 or TCI-20.

# Specifications

**Input Alarm Signal (selectable by alarm interface board):** Loop current: 35 – 200 mA. for closed loop; Repeater Buss: +24 VDC; NO Dry relay contact; NC Dry relay contact. Open or closed index decoding (auto detected by System 3505 Prism LX™) with any of the above.

**Incoming Box Speed:**

*Open Index (Municipal Box type)*—: Any starting box speed between 1/8 - 4 seconds, with a +/- 50% speed change per round. No adjustment needed. “Fail Safe” Take over Point: when 1:2:5:6:25 code wheel ratio is exceeded by +50%, the System 3505 Prism LX™ will restart box number decoding to salvage the box number being decoded.

*Closed Index (Security type box):* 1/8 - 1.6 seconds if 2 teeth removed between digits; +/- 25% speed change per round. No adjustment needed.

1/8 - 2.6 seconds if 1 tooth removed between digits; +/- 25% speed change per round. No adjustment needed. Single-circuit telegraph decode.

Powered by the System 3505 Prism LX™. Decodes any incoming speed without adjustment.

**Fail Safe Takeover Point:** When 1:2:5:6.23 code wheel ratio is exceeded by +50%

**Decodes:** 1-6 digit boxes (except box numbers 1, 11, 111, 1111, 11111, and 111111)

**Box Storage:** 30 alarms, 5 rounds each. To avoid losing rounds, additional rounds will roll over as if they were a new box--(first box circuit, no limit on rounds)

**Make Break Ratio:** Standard is 50/50 per digit, however, may deviate to 1:99 or 99:1, but modifies +/- 50% speed change per round for Open Index and +25% for Closed Index.

**NFPA-72 Compliant, ETL Listed**

