

T3419

Regent Fire Detector Input Module

PRODUCT TECHNICAL REFERENCE

ICS Triplex T3419 is a Regent fire detector input module with 16 monitored and tested loops. It supplies regulated detector-loop voltage and reports alarm and wiring conditions to the safety application.

OFFICIAL SOURCE

ICS Regent Fire Detector Input Modules (T3419) | PD-6032 Issue 1, March 2006 | ICSTT-RM020

Verified technical profile

Regent Fire Detector Input Module

Safetybus power	0.85 load units
Inputs	16
Field circuit	20 V detector loop, monitored and tested
Field-power voltage	15 to 40 Vdc
Field-power current	1.2 A maximum
Regulated loop voltage	23.5 Vdc
End-of-line resistor	3.0 kohm typical
Quiescent current	3 to 10 mA typical
Reset voltage	Less than 1 V
Reset current	Less than 20 mA
Test interval	15 s typical
Isolation	2500 V minimum
Operating temperature	0 to 60 deg C
Storage temperature	-40 to 85 deg C

ENGINEERING USE OF THE VERIFIED DATA

Each detector loop returns through the chassis terminal blocks to the field supply return, with external barriers where intrinsic safety is required. Commissioning includes loop-current checks, alarm simulation, wiring-fault tests, reset timing and verification of application annunciation.

FIELD CHECKPOINTS

- Confirm T3419 and the assigned sixteen detector-loop identities.
- Disable affected fire functions only under the approved impairment procedure.

Only values traceable to the listed manufacturer source are treated as verified technical data.

System role and engineering boundaries

ICS Triplex T3419 is a Regent fire detector input module with 16 monitored and tested loops. It supplies regulated detector-loop voltage and reports alarm and wiring conditions to the safety application.

1

Supervises sixteen fire detector input loops

2

Performs automatic loop testing and line monitoring

3

Provides regulated power for the connected detector circuits

4

Supports redundant detector arrangements for critical inputs

ENGINEERING NOTE

Install T3419 in the documented Regent I/O chassis slot and connect detector loops through the associated terminal blocks with the correct end-of-line components. After replacement, test alarm, open-circuit, short-circuit and programmable reset behavior for all affected loops.

Industrial application matrix

Four source-supported operating contexts for this exact product.

Plant fire-zone detection

Interfaces monitored detector circuits to the Regent safety application.

Combustible-area alarm loops

Supervises detector alarm and wiring conditions in engineered fire-protection zones.

Redundant detector voting

Supports paired sensor and module arrangements used to maintain detection during a controlled fault.

Intrinsic-safety detector circuits

Works with an approved external barrier when the installation requires intrinsically safe field wiring.

MODEL-SPECIFIC ACCEPTANCE FOCUS

Confirm T3419 identity, Regent chassis slot, detector types, terminal map, 15 to 40 Vdc field supply, 3.0 kohm end-of-line components, barriers, grounding, reset timing, application alarm mapping and complete loop proof test before commissioning.

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	TC-303-02-4M0 Apter Power product page
02	TC-311-02 Apter Power product page
03	T8830C Apter Power product page
04	T8431C Apter Power product page
05	T8403C Apter Power product page
06	T9110 Apter Power product page
07	T8151B Apter Power product page
08	T9852 Apter Power product page

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

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