**ICS Triplex T8442 Speed Monitor Module**

**Brand: ICS Triplex**

**Module Number:T8442**

**Unit Price: $800**

**Country Of Origin: United States**

**Weight: 0.75kg**

**Certificate: C/O from the Chamber of Commerce**

**C/Q from the manufacturer**

**Warranty: 12 Months**

**Inventory Qty: 10**

## Description:

**ICS Triplex T8442 Key parameters**

**Triple Modular Redundancy (TMR) Architecture**

Incorporates three independent monitoring and control groups, each capable of handling one rotating machine (e.g., turbines, compressors). Each group includes three TMR speed input channels and two quad-redundant, fault-tolerant output structures, ensuring continuous operation even during component failures .

**Sensor Compatibility & Input Configuration**

Supports both active (totem-pole, open-collector) and passive (magnetic, inductive) speed sensors. Interfaces with a dedicated Speed Input Field Termination Assembly (SIFTA) for signal conditioning and field wiring isolation .

**Output Redundancy & Safety Features**

Utilizes quad-redundant relay outputs with normally open/closed volt-free contacts. Failures in individual relays or contacts do not disrupt load control, and force-guided safety relays detect welded/stuck contacts via load feedback .

**Diagnostics & Fault Tolerance**

Features real-time load current feedback and contact status monitoring for each output channel. Onboard self-tests and front-panel LEDs provide immediate fault alerts for wiring issues or module malfunctions. Supports hot-swap replacement for minimal downtime .

**Environmental & Safety Certifications**

Operates in temperatures from -5°C to 60°C with 2500V impulse isolation between field I/O. Certified to IEC 61508 SIL 3 standards, ensuring reliability in critical industrial application .

**一．ICS Triplex T8442 TMR Speed Monitor Range**

| **Catalogue No.** | **Product name** | **Description** |
| --- | --- | --- |
| T8442  | TMR Speed Monitor. |  Trusted TMR Speed Monitor Module. |
| T8846 | Speed Input FTA (SIFTA) | Input field termination assembly for use with the T8442 TMR Speed Monitor. |
| T8891 | Speed Output FTA (SOFTA | Output field termination assembly for use with the T8442 TMR Speed Monitor. |
| TC-801 | I/O Companion Slot, Speed Monitor to FTA (Internal ) | Companion Slot Input/Output (I/O) cable with internal power. This connects an active/standby hot swap pair of T8442 modules to a single SIFTA and up to three SOFTAs. |

