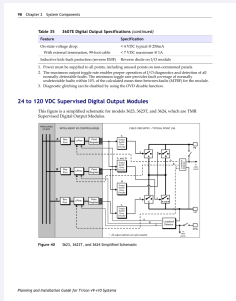


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Triconex 3624

Supervised Digital Output Module



SIGNALS	FIELD RANGE	ARCHITECTURE	SOURCE
16, commoned	16-30 VDC	TMR	9700077-012

Triconex 3624 is a nominal 24 VDC TMR supervised digital output module with sixteen commoned outputs. It provides per-point load supervision and self-protected output switches for the documented field circuits.

01

VERIFIED PRODUCT PARAMETERS

Output signals	16, commoned
Recommended voltage range	16-30 VDC
Maximum field voltage	36 VDC
Continuous output current	0.7 A per point maximum
Surge output current	4.8 A for 10 ms maximum
Minimum required load	30 mA
Off-state load leakage	4 mA maximum
Output protection	Self-protected against over-voltage, over-temperature and over-current
Field fuses	Not required by the module specification
Point isolation	1500 VDC minimum

Technical values were verified against Invensys 9700077-012, February 2009.

02 ADDITIONAL TECHNICAL DATA

Off-state short detection	Less than 5 ohm
Diagnostic pulse duration	2 ms maximum; 500 microseconds typical; OVD cannot be disabled
Logic power	Less than 10 W
Field alarm indicators	Power and individual Load indicators
Output toggle interval for diagnostics	100 ms plus one scan

03 SYSTEM ROLE AND APPLICATIONS

Use the recommended 16-30 VDC range and verify the minimum 30 mA load, maximum 0.7 A continuous current and non-disableable output diagnostics. Commoned wiring and supervision requirements must match the installed termination arrangement.

- Command approved DC loads while retaining per-point load supervision. Match the connected current to the 30 mA minimum and 0.7 A maximum before accepting the circuit.
- Use the documented load and power indications to investigate field-circuit conditions. The off-state short-circuit detection threshold is below 5 ohm; verify the complete termination and return path.
- During controlled maintenance, distinguish the primary module from its spare when reading the point LEDs. The manufacturer states that only the primary module asserts the point indicators.

04 OFFICIAL INSTALLATION FACTS

- Identify the 3624 and its sixteen commoned supervised outputs.
- Check 16-30 VDC recommended field supply and the common return.
- Verify at least 30 mA load and no more than 0.7 A continuous current.
- Account for output diagnostic pulses; OVD cannot be disabled.

05 OFFICIAL DOCUMENTATION

Invensys 9700077-012, February 2009

AMIKON PRODUCT SUPPORT

Amikon Limited | INFO@AMIKON.CN