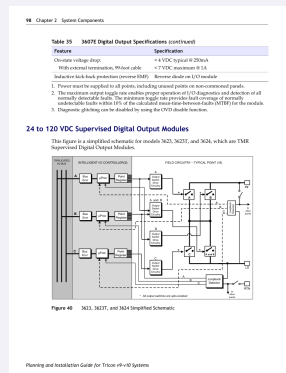


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Invensys Triconex 3624
Supervised Digital Output Module



PRODUCT	3624
FAMILY	Tricon v9-v10
FUNCTION	Supervised Digital Output Module
STATUS	Verify exact configuration

Prepared by Amikon Limited from Invensys 9700077-012, February 2009. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

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

02 MOUNTING AND CONNECTION

- 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.
- Read point LEDs on the primary module; the spare does not assert them.

Table 35 3607E Digital Output Specifications (continued)

Feature	Specification
On-state voltage drop:	< 4 VDC typical @ 250mA
With external termination, 99-foot cable	< 7 VDC maximum @ 1A
Inductive kick-back protection (reverse EMF)	Reverse diode on I/O module

1. Power must be supplied to all points, including unused points on non-commoned panels.
2. The maximum output toggle rate enables proper operation of I/O diagnostics and detection of all normally detectable faults. The minimum toggle rate provides fault coverage of normally undetectable faults within 10% of the calculated mean-time-between-faults (MTBF) for the module.
3. Diagnostic glitching can be disabled by using the OVD disable function.

24 to 120 VDC Supervised Digital Output Modules

This figure is a simplified schematic for models 3623, 3623T, and 3624, which are TMR Supervised Digital Output Modules.

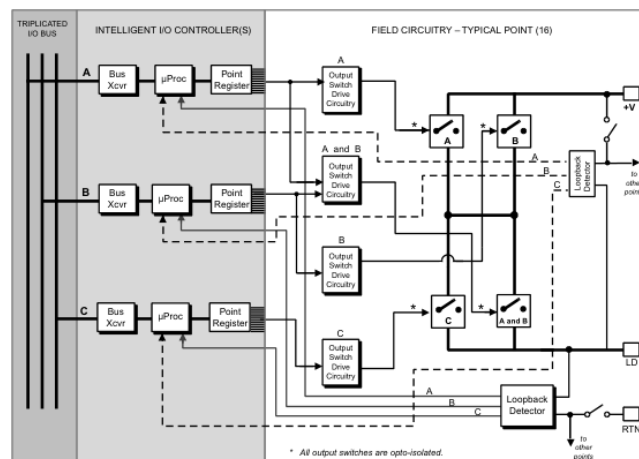


Figure 40 3623, 3623T, and 3624 Simplified Schematic

04

CABLE ROUTING AND CONNECTION

- 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.
- Read point LEDs on the primary module; the spare does not assert them.
- Check Power, per-point Load, Pass, Fault and Active indications.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Confirm normal indications and fault-contact state after commissioning.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Invensys 9700077-012, February 2009
Product record	3624
Manufacturer	Invensys Triconex
Support	INFO@AMIKON.CN