



AADvance Controller

Catalog Numbers T9110, T9300, T9310, T9401/2, T9431/2, T9451, T9481/2



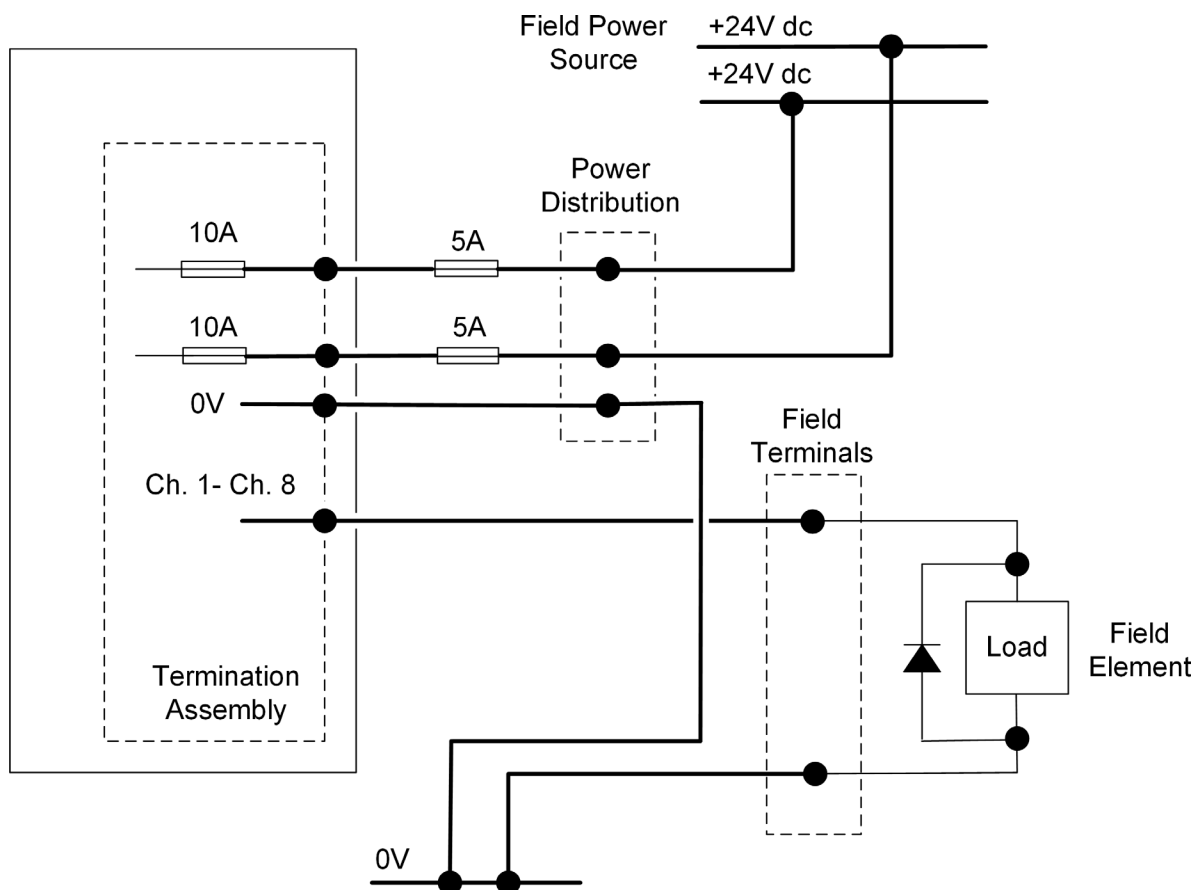
Allen-Bradley

by ROCKWELL AUTOMATION

System Build Manual

Original Instructions

Figure 20 - Digital Output Field Circuit



WARNING: For inductive loads, a back EMF protection diode shall be fitted at the load.



WARNING: A fuse rated minimum 32 Vdc, maximum 5 A for an input of 0 - 28.3 V and a maximum fuse current rating of 100 V for an input of 28.3 - 42.4 V must be installed in series with the field power terminals on modules T9451 to comply with the UL 508 certification.



Avertissement: Pour les charges inductives, une diode de protection FEM arrière doit être installée à la charge.



Avertissement: Un fusible d'une capacité minimum de 32 Vdc, d'une capacité maximum de 5A pour une entrée de 0 à 28,3 V et d'un fusible pour courant d'une capacité maximum de 100V pour une entrée de 28,3 à 42,4 V doit être installé en série avec les bornes d'alimentation sur les modules T9451 pour se conformer à la certification UL 508.

Recommended Fuse Types

The 10A fuses are fitted into the termination assembly and are:

- T9902: SMF Omni-Block, Surface Mount Fuse Block 154 010, with a 10A, 125V Fast Acting Fuse, Littelfuse.

Parts List

Base Units

Part No.	Part Description
T9100	Processor base unit
T9300	I/O base unit (3 way)

Modules

Part No.	Part Description
T9110	Processor module
T9401	Digital input module, 24 Vdc, 8 channel, isolated
T9402	Digital input module, 24 Vdc, 16 channel, isolated
T9451	Digital output module, 24 Vdc, 8 channel, isolated, commoned
T9431	Analogue input module, 8 channel, isolated
T9432	Analogue input module, 16 channel, isolated
T9481	Analogue output module, 3 channel, isolated
T9482	Analogue output module, 8 channel, isolated

Special Application Modules

Part No.	Part Description
T9441	Frequency Input Module (Product not yet released. Contact Sales for more information)

Termination Assemblies

Part No.	Part Description
T9801	Digital input TA, 16 channel, simplex, commoned
T9802	Digital input TA, 16 channel, dual
T9803	Digital input TA, 16 channel, TMR
T9831	Analogue input TA, 16 channel, simplex, commoned
T9832	Analogue input TA, 16 channel, dual
T9833	Analogue input TA, 16 channel, TMR
T9851	Digital output TA, 24Vdc, 8 channel, simplex, commoned
T9852	Digital output TA, 24Vdc, 8 channel, dual
T9881	Analogue output TA, 8 channel, simplex commoned

Part No.	Part Description
T9882	Analogue output TA, 8 channel, dual
T9844	Frequency Input Module TA, Simplex, Active (not yet released)
T9845	Frequency Input Module TA, Dual, Active (not yet released)
T9846	Frequency Input Module TA, TMR, Active (not yet released)
T9847	Frequency Input Module TA, Simplex, Passive (not yet released)
T9848	Frequency Input Module TA, Dual, Passive (not yet released)
T9849	Frequency Input Module TA, TMR, Passive (not yet released)

Expansion Cable Assembly

Expansion cable assembly, comprising expansion cable and two adapters

Part No.	Part Description
T9310-02	Backplane expansion cable, 2 meter

Blanking Covers

Part No.	Part Description
T9191	Blanking cover (tall) for I/O positions with no TA fitted
T9193	Blanking cover (short) for I/O positions with TA or a Processor

Spares and Tools

Part No.	Part Description
T9901	Replacement input fuse 50 mA for T9801/2/3 and T9831/2/3, pack of 20 ⁽¹⁾
T9902	Replacement output fuse 10A for T9851/2, pack of 20 ⁽²⁾
T9903	Replacement coding pegs (pack of 20)
T9904	Replacement backplane clips (pack of 20)
T9905	Replacement processor 3 V lithium cell, pack of 20 ⁽³⁾
T9906	Replacement program enable key
T9907	Installation tool kit
T9908	Fuse Extractor Tool

⁽¹⁾ T9901: No 396/TE5 50 mA time lag fuse; UL 248-14, 125 V, Leadfree; manufactured by Littelfuse.

⁽²⁾ T9902: SMF Omni-Block, Surface Mount Fuse Block 154 010, with a 10 A, 125 V Fast Acting Fuse, Littelfuse.

⁽³⁾ T9905: Polycarbon monofluoride Lithium Coin Battery, BR2032, 20 mm dia; Nominal voltage 3 V; Nominal capacity (mAh) 190; Continuous standard load (mA) 0.03; Operating temperature -30 °C to +80 °C, supplied by Panasonic.

Software

Part No.	Part Description
T9082U	IEC 61131 Workbench, USB key, single user, single controller
T9082D	IEC 61131 Workbench, hard disk key, single user, single controller
T9083U	IEC 61131 Workbench, USB key, multiple controllers
T9083D	IEC 61131 Workbench, hard disk key, multiple controllers
T9084U	IEC 61131 Workbench, 5 user USB key, multiple controllers

Part No.	Part Description
T9087	IEC 61131 Workbench 2
T9090	AADvance®-Trusted® SIS Workstation software AADvance® license
T9030	OPC portal server
T9033	AADvance DTM (for use with HART Pass-Through feature)

Demonstration Unit

Part No.	Part Description
T9141	AADvance Demonstration Unit (Including HMI)

Miscellaneous Items

Part No.	Part Description