MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Woodward pages

MICRONET

5441-693

DISCRETE I/O FIELD TERMINATION MODULE

OFFICIAL SOURCES

Woodward official documentation for 5441-693. Selected pages retain their original content, color and aspect ratio.

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Input & Output Modules

Description	Part Numbers	Notes	Field Termination Modules	Cable Selection Table
High Density Combo I/O - 4 Speed Inputs, 12 I/V (4-20 mA or 0-5 V) Selectable Inputs, 4 4-20 mA Outputs	5466-1105	Speed inputs have high accuracy. All 4-20mA outputs are actuator outputs. No 0-200mA outputs available. Speed inputs use low-density cable & Analog I/O use high-density cable.	For Simplex: 5437-523 (1) 5501-376 (1) For TMR: 5501-372 (1) 5501-502 (1)	Table J Table M
High Density Combo I/O - 4 Speed Inputs (Selectable MPU/PROX/EDDY), 12 Analog Inputs (Selectable 4-20 mA or 0-5 V), 4 Analog Outputs (4-20 mA 600 Ohm)	5466-1115	Speed inputs have standard accuracy (same as -316). All 4-20mA outputs are actuator outputs. No 0-200mA outputs available. Speed inputs use low-density cable & Analog I/O use high-density cable.	For Simplex: 5437-523 (1) 5501-376 (1) For TMR: 5501-372 (1) 5501-502 (1)	Table J Table M
Simplex Discrete I/O - 48 Inputs / 24 Outputs	5466-1050	Digital I/O, SW compatible only in coder 5.0x and up. Simplex FTM relay drivers 5441-693, 5441-694 FTMs are also options.	5501-325 (HV) (1) or 5501-367 (LV) (1)	Table M (2 cables)
Simplex Discrete I/O - 48 Inputs / 24 Outputs -2 (spare)	5466-1158	Digital I/O, use as a spare only. Backward compatible with older systems. SW compatible only in coder 4.06, 5.04, 6.00. Simplex FTM relay drivers 5441-693, 5441-694 FTMs are also options	5501-325 (HV) (1) or 5501-367 (LV) (1)	Table M (2 cables)
High Density Analog I/O - 24 Inputs (Selectable 4-20 mA or 0-5 V) (5mS Anti-aliasing filter on A/I ch. 23/24), 8 Outputs (4-20 mA 600 Ohms) Isolated I/O	5466-5025	2 High Density Analog/Discrete Cables	5501-376 (2) or TMR 5501-372 (2)	Table M (2 cables)
Simplex High Density Analog I/O - 24 4-20 mA Inputs (5mS Anti-aliasing filter on A/I ch. 23/24), 8	5466-5026		5501-376 (2) or TMR 5501-372 (2)	Table M (2 cables)
TMR and Dataforth High Density I/O - 24 0-5 V Inputs (5mS Anti-aliasing filter on A/I ch. 23/24), 8 4-20 mA Outputs	5466-5027	All inputs configured for voltage inputs for use with TMR or DataForth. For use with DataForth FTMs see 9097-601 Dataforth module TAB.	Dataforth: 5441-695 (2) TMR 5441-697 (2) or TMR: 5501-372 (2)	Table M (2 cables)
TMR Combo I/O - (4) MPU's, (8) 0-5 Volt Inputs, (4) 4-20 mA Outputs, (2) Prop. Actuator Outputs	5466-253		5501-365 (2)	Table J
TMR Discrete I/O - 48 Inputs / 24 Outputs	5466-1051	With 4 FTMs and 3 MicroNet cards, system I/O is 24 DI and 12 DO.	5453-276 (4)	Table M (2 cables)
TMR Discrete I/O - 48 Inputs / 24 Outputs (spare)	5466-1156	Digital I/O. Use as a spare only. Backward compatible with older	5453-276 (4)	Table M (2 cables)

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		systems. SW Compatible only in coder 4.06, 5.04, 6.00. With 4 FTMs and 3 MicroNet cards, system I/O is 24 DI and 12 DO.		

Relay FTMs

Description	Part Numbers	Notes	Field Termination Modules	Cable Selection Table
Discrete Output Relay - 32 channel, 10 Amp at 28 VDC	5441-413	1 Form 'C' contact per relay		Table K
Discrete Output Relay - 16 channel, 10 Amp at 28 VDC, 2 Form 'C' contacts per relay	5441-419	2 Form 'C' contacts per relay		Table K
Discrete Output Relay - 16 channel, 10 Amp at 28 VDC	1751-6091	DIN Rail mount		Table K
Discrete I/O - 24 Inputs /12 Relay Outputs	5441-693	Purchased from Phoenix Contact. No surface mount components.		Table M
Discrete I/O - 24 Inputs /12 Relay Driver	5441-694	Purchased from Phoenix Contact. No surface mount components.		Table M
Discrete I/O - 48 Inputs – 24 VDC, 24 Discrete Outputs J1 & J2 to J3 cable connectors	5501-367	Simplex high density discrete inputs. Discrete outputs are routed from J1 & J2 to J3.		Table M
TMR Discrete I/O - 6 Inputs, 3 Relay Outputs	5453-276	Used with 5009FT and TMR applications. Uses cable 5417-019 between FTMs.		Table M

LINKnet HT Modules

Description	Part Numbers	Notes	Field Termination Modules	Cable Selection Table
RTD Input - 8 Channel	8200-1200			Table R
Thermocouple Input - 8 Channel, Fail high	8200-1201			Table R
4-20 mA - 8 Inputs / 2 Outputs	8200-1202			Table R
4-20 mA - 8 Inputs / 2 Outputs, 24 VDC Loop Power	8200-1203			Table R
Discrete Input - 16 Channel	8200-1204			Table R
Discrete Output - 16 Channel	8200-1205			Table R

RTCnet Modules

Description	Part Numbers	Notes	Field Termination Modules	Cable Selection Table
RTD Input - 8 Channel	8200-1100			Table R
Thermocouple Input - 8 Channel, Fail high	8200-1101			Table R
Thermocouple Input - 8 Channel, Fail high, High Accuracy	8200-1151	Use for gas turbine EGT monitoring.		Table R
4-20 mA - 8 Inputs / 2 Outputs	8200-1102			Table R