

TFX Fire Control Panel Spare Parts and Compatible Devices

Installation Sheet 19700373, Issue 4

Detector Compatibility

The following list shows which addressable detectors are compatible with the AUTOCALL TFX Fire Control Panels, the standby current for each detector model, the detector base, and identifier, and the maximum detectors per analog addressable circuit loop for each detector. The following detectors may be connected directly to the TFX analog addressable loop circuits.

The UL listed conventional detectors listed in Publication 19700411, Smoke Detector Compatibility Chart, may be used when they are attached to an IXA-500DM or IXA-500DMA Conventional Detector Module. Note: only the IXA-500DM will be the “addressable point” on the system. TFX-500/800 Zone ID is 500A.

Table 1. Detector Compatibility

Mfr.	Detector Model/ Part Number	Standby Current	Base Model/ Part Number	Maximum Detectors per Loop
Thorn Security	ISA-412P/940518	0.100 mA	IBN-512A /940522	99
Thorn Security	ISA-412/ 940517	0.100 mA	IBN-512A / 940522	99
Thorn Security	ISN-512P/940520	0.120 mA	IBN-512A / 940522	99
Thorn Security	ISN-512I/940519	0.120 mA	IBN-512A / 940522	99
Grinnell	ISN-550I/ 920095	0.20 mA 0.20 mA 0.23 mA	IBN-551 920100, IBN-552 920192, (IBN-550 920099) IBN-553 920194, IBN-554 920195	99
Grinnell	ISN-550P/ 920096	0.30 mA 0.30 mA 0.30 mA 0.23 mA	IBN-551 920100, (IBN-550 920099) IBN-552 920192, IBN-553 920194, IBN-554 920195,	99
Grinnell	IHN-135/920097	0.30 mA 0.30 mA 0.30 mA 0.33 mA	IBN-551 920100, (IBN-550 920099) IBN-552 920192, IBN-553 920194, IBN-554 920195,	99
Grinnell	IHN-200/920098	0.30 mA 0.30 mA 0.30 mA 0.33 mA	IBN-551 920100, (IBN-550 920099) IBN-552 920192, IBN-553 920194, IBN-554 920195,	99
Grinnell	ISN-550DI / 920102	0.20 mA	Duct System (ionization)	99
Grinnell	ISN-550DP / 920103	0.30 mA	(Duct System photoelectric)	99

TFX End-of-Line Devices

Table 2. TFX End-of-Line Devices

Part Number	Description	Application(s)
900937	Special	Common alarm (SDR) loops, Main Processor
18000259	10k-ohm	Fault Loop, Main Processor, TB1-3, TB1-4
976064	150 ohm	Main Processor, Remote Bus EOL
976048	120 ohm	MPIM Remote Bus, Last Device EOL
976043	270 ohm, 6 W, wire-wound	OXA-500SB Signal Expander Module
976042	22 k-ohm	OXA-500SD, OXA-50SDA, OXA-501SDA, OXA-504SDA Signal Driver Module, OXA-500SB Signal Expander Module
976044	2.2 k-ohm	IXA-500CM, IXA-500CMA Contact Monitoring Module
976045	1 k-ohm	IXA-500CM, IXA-500CMA Contact Monitoring Module, IXM-500 Motherboard with IXA-500CMA
197046	2 k-ohm	IXA-500CM, IXA-500CMA Contact Monitoring Module
976047	4.7 k-ohm	IXA-500DM, IXA-500DMA Detector Monitoring Module
976082	619 ohm	IXA-501CM Mini-Contact Monitoring Module
976250	27 k-ohm, 1 Watt	OXA-502SDA, OXA-503SDA DC/Audio Signal Driver DC or audio applications, Style Y, last device EOL
4281-050	5.1 k-ohm, 2 Watt	OXM-501SDA (with OXA-502SDA) DC/Audio Signal Driver audio riser Style Y last device EOL; CSM-500 (with OXA- 502SDA) Channel Select Module audio circuit Style Y last device EOL
19240410	relay	OXA-503SDA DC/Audio Signal Driver, install in DC return circuit for supervision of DC power limited/Class 2 operation

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TFX-500M/800M Cable Applications

Table 3. TFX-500M/800M Cable Applications

Cable Description					
Part Number	Connector	Wire	Length	Keying	System Application
19600206	1 end Molex, 1 end bare	5 wires	16 inches		RPS-424 Power Supply TB1 to Main Processor Board PL5
13100076	2 ends, 14 pin	flex	12 inches	Up-Down	Local Bus--NOT for use between FCM and Main Processor
13100077	2 ends, 16 pin	flex	6 inches	Up-Up	Expansion Bus--Front Panel MPIM to Zone Indicator board
13100078	2 ends, 14-pin	flex	24 inches	Up-Down	Local Bus--Main Processor to MPIM in position B3 Not for use between FCM and Main Processor
13100079	2 ends, 14 pin	flex	6 inches	Up-Down	Local Bus--MPIM to MPIM
13100080	2 ends, 16 pin	flex	4 inches	Up-Up	Expansion Bus--MPIM to ARM-500 or XIOM
13100081	8 conductor	Special (telcom)	18 inches		Digital Alarm Communicator Module
13100083	2 ends, 14 pin	flex	4 inch	Up-Up	Local Bus
13100084	2 ends, 20 pin	flex	4 inch	Up-No Key	Keypad Bus
13100085	2 ends, 16 pin	flex	2 inch	Up-Down	Expansion Bus
13100086	2 ends, 16 pin	flex	12 inch	Up-Down	Expansion Bus
13100087	2 ends, 14 pin	flex	12 inch	Up-Up	Local Bus--For Use Between FCM and Main Processor
13100092	2 ends, 14 pin	flex	13 inch	Up-Up	Local Bus--For Use Between FCM and Main Processor
13100093	2 ends, 16 pin	flex	12 inch	Up-Up	MPIM to Ribbon Cable Converter Board
13100094	2 ends, 14 pin	flex	18 inch	Up-Down	Main Processor to RM/SDA Motherboard
13100095	2 ends, 16 pin	flex	4 inch	Up-Down	Expansion Bus MPIM to first XIOM or ARM
13100100	2 ends, 14 pin	flex	24 inch	Up-Up	Local Bus--For use between FCM and DC Converter or PSM
19600193	1 end Molex, 1 end bare	4 wire			Remote Bus--DCPM terminal block to MPIM
940547	2 ends special	Special	6 inches		Special Serial Cable, MPIM to Printer Interface Board
19600194	2 ends bare	2 wires	12 inches		RPS-424 to ARM-500
940577	1 end special, 1 end DB9 (pin)	Special	15 feet		Programming Cable (Special)
940578	1 end special, DB25 (pin)	Special	25 feet		Printer Cable (Special)
940579	1 end special, DB25 (socket)	Special	25 feet		Printer Cable (Special)
19600188	1 end Fast-on (fem.), 1 end bare				Battery Harness RPS-424 to batteries
19600196	2 ends #6 Ring Terminal	1 wire	8 inches		Door to Backbox (ground)
19600067	2 ends #6 Ring Terminal	1 wire	3 inches		Main Processor to Earth Ground
19600194	4 ends bare (twisted pair)	2 wires	12 inches		ARM-500 to RPS-424
976065		--	--		Ribbon Cable Converter Board
19600208	2 ends - pins	4 wires	6 inches		5-volt Power Bus Down TFX-500/800M Enclosure Door (Module-to-Module)

TFX Fuses

Table 4. TFX Fuses

Assembly Number	Part Number	Description	Application(s)
976019	18400351	3.15 amp	DCPM DC Power Module P/N 940503
	18400352	6.3 amp	ACPM AC Power Module P/N 940501, APS-500 Addressable Power Supply P/N 940504
	18400355	2 amp	XIOM Modules IAA-16, OAA-16

TFX-500M and TFX-800M Spare Parts

Table 5. TFX-500M/800M Spare Parts

Part Number	Spare Part
8000259	EOL 10 k-Ohm resistor
18400351	Fuse--3.15 amp (See 976019)
18400352	Fuse--6.3 amp (See 976019)
18900235	TFX-500 Main processor EPROM V. 1.0
18900236	TFX-500 Main processor EEPROM V. 1.0
18900237	TFX-800 Main processor EPROM V. 2.1
18900238	TFX-800 Main processor EEPROM V. 2.0
18900239	TFX-800 ALXM EPROM V. 2.1
18900240	TFX-800 ALXM EEPROM V. 2.0
18900249	TFX-500 Main processor EPROM V. 2.1
18900250	TFX-500 Main processor EEPROM V. 2.0
18900259	TFX-500 Main processor EPROM V. 3.1
18900260	TFX-500 Main processor EEPROM V. 3.0
18900261	TFX-800 Main processor EPROM V. 3.1
18900262	TFX-800 Main processor EEPROM V. 3.0
18900263	TFX-800 ALXM EPROM V. 3.1
18900264	TFX-800 ALXM EEPROM V. 3.0
18900267	TFX-500 Main Processor EPROM V. 4.0
18900268	TFX-500 Main Processor EEPROM V. 4.0
18900269	TFX-800 Main Processor EPROM V. 4.0
18900270	TFX-800 Main Processor EEPROM V. 4.0
18900271	TFX-800 ALXM EPROM V. 4.0
18900272	TFX-800 ALXM EEPROM V. 4.0
19240248	12V 25AH Battery
19240269	12V 10AH Battery
19240160	12V--15Ahr Battery
19240410	End-of-line Relay
19240890	MF312 Conventional Ion Chamber Detector
19240891	MR312 Conventional Photoelectric Detector
19240892	M310 Conventional Detector Base
19240940	Card guides for Expansion Motherboard
19400831	Auxiliary Housing Subplate
19600150	Cable, TLA-530 to TLB-530
19600188	Battery Harness Assembly
19600206	Cable MP to RPS-424
19600215	Cable TLB-530 to TLB-530
19600221	Cable 6--inch for Serial Interface Module
4050-211T	Conventional Alarm Station
4050-211TB	Conventional Alarm Station with Optional IXA-501CM
4281-050	End-of-line Resistor, 5.1 k-ohm, 2 W
8099-510	Backbox, 2 Module, 4--inch deep
8099-511	Backbox, 3 Module, 4--inch deep
8099-512	Backbox, 5 Module, 4--inch deep
8099-513	Backbox, 7 Module, 4--inch deep
8099-514	Backbox, 7 Module, 6--inch deep
8099-515	Backbox, 10 Module, 6--inch deep
8099-516	Backbox, 5 Module, 6--inch deep
850463	"TFX-500/800 CONSYS Programming Guide, Issue 3 1994 (Available only to Tyco/Grinnell Automated Systems trained and authorized personnel)"
850481	"TFX-500/800 Application Guide and Maintenance Manual, Issue 2, August, 1992 (Available only to Tyco/Grinnell Automated Systems trained and authorized personnel)"
850515	TFX-500M and TFX-800M Operator's Manual and Installation Guide.I
850516	TFX-500M and TFX-800M Operator's Manual
900937	End-of-line, Special, for Common Alarm (Sounder) Ckt.
910683	RPS-424 Power Supply/Battery Charger
910688	SK5128 Digital Alarm Communicator Transmitter
910692	SX-TB-030-2A Secondary Protector
920020	TFX-500/800 Printer (LA75)
920067	ISC-350I Conventional Ionization Detector Head
920068	ISC-350P Conventional Photoelectric Smoke Detector Head
920070	IHC-115 Conventional Heat Detector Head--(115 xF)
920071	IHC-135 Conventional Heat Detector Head--(135 xF)
920072	IHC-160 Conventional Heat Detector Head--(160 xF)
920073	IHC-210 Conventional Heat Detector Head--(210 xF)

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Part Number	Spare Part
920083	IBC-351 Conventional Detector Base, 6-inch, 2-wire, compatible with Remote LED
920095	ISN-550I, Ion Smoke Detector Head
920096	ISN-550P, Photo Smoke Detector Head
920097	IHN-135 Heat Detector Head, 135 deg.
920098	IHN-200 Heat Detector Head, 200 deg.
920099	IBN-550 Detector Base, 4-inch (Not available in U.S.)
920100	IBN-551 6-inch Addressable Detector Base
920101	IAN-ADD Addressable XPERT Card for 550 Detector Heads
920102	ISN-550DI Ion Duct System
920103	SIN-550DP Photo Duct System
920109	IA-MED Detector Test Pole
920111	IA-MTA Detector Test Gas Aerosol
920144	RS232 to MMF Serial Cable Converter
920192	IBN-552 6-inch Addressable Detector Base, Low Profile
920194	IBN-553 6-inch Addressable Detector Base w/ Relay
920195	IBN-554 6-inch Addressable Detector Base, w/ Sounder
940517	ISA-412I Addressable Ion Detector
940518	ISA-412P Addressable Photo Detector
940519	ISN-512I Analog/Addressable Ion Sensor
940520	ISN-512P Analog/Addressable Photo Sensor
940522	IBN-512A Analog/Addressable Detector Base
940530	TS-300 Detector Test Set
940547	Serial Printer Cable
940577	Programming Cable
940578	Cable RS232 Serial Printer Cable
975163	"2LR External Battery Cabinet (See KDR1000 Owner's Manual, P/N 850175, Rev. B, March 1989)"
976010	TFX Auxiliary Housing Assembly
976011	SFE-500 TFX-500 CONSYS Software Package (Available only to Tyco/Grinnell Automated Systems trained and authorized personnel)
976013	"Auxiliary Relay Option - 8 Ass'y (976014,976015)"
976014	ARM500 Auxiliary Relay Module Assembly
976015	MPIM Subassembly
976016	IAS-500 End-of-Line Device Assembly
976018	"Printer Option Assembly (940545, 940548, 13100076)"
976019	Spare Fuse Kit Assembly
976022	IXA-500DM Detector Monitor Module
976023	OXA-500SD Signal Driver Module
976024	OXA-500SB Signal Expander Module
976025	OXA-500RM Addressable Relay Module
976026	CAA-500LI Line Isolator Module
976027	IXA-500CM Contact Monitor Module
976030	CVB-500 Reverse Polarity Transmitter Option
976031	CEB-500 City Box Transmitter Option
976032	Remote Ops/Dis Printer Option
976034	DCPM DC/DC Converter Subplate Assembly
976037	Main Processor Board-- Spare Part
976040	DCPM DC Power Module--Spare Part
976041	PIM-550 Printer Interface Board--Spare Part
976042	EOL Assembly - 22 k-Ohm resistor
976043	EOL Assembly - 270 Ohm resistor, 6W
976044	EOL Assembly - 2.2 k-Ohm resistor
976045	EOL Assembly - 1 k-Ohm resistor
976046	EOL Assembly - 2 k-Ohm resistor
976047	EOL Assembly - 4.7 k-Ohm resistor
976048	EOL Assembly - 120 Ohm resistor
976062	IIB-800 ALXM Assembly
976063	IAM-800 Motherboard--Spare part
976064	EOL Assembly - 150 Ohm resistor
976065	AIS-800 Expansion Bus Cable Converter Board
976066	OAA-16 XIOM 16 Output Module
976067	IAA-16 XIOM 16 Input Module
976080	SRA-550 DACT Interface Module
976081	IXA-501CM Mini Contact Monitor Module
976082	End-of-line Resistor 619 ohm, 0.25 W
976091	OXA-500SDA Signal Driver Module

Part Number	Spare Part
976092	IXA-500CMA Contact Monitoring Module
976093	IXA-500DMA Detector Monitor Module
976094	TFX-AutoPlex Control Panel Assembly
976098	XAA-16 8 Input/8 Output XIOM
976121	TLX-500 XA Network Interface Module
976122	500PSM Power Monitor (TFX Addressable)
976123	PSM Power Monitor (Non-addressable)
976124	XAI XA Interface Board
976127	FCM Fire Control Module
976128	ODM Operator Display Module
976129	16-Indicator Module
976130	40 x 2-Indicator Module (with MPIM)
976131	40 x 2-Indicator Module (without MPIM)
976132	40-Status Control Module (with MPIM)
976133	40-Status Control Module (without MPIM)
976134	16-Status Control Module (with MPIM)
976135	16-Status Control Module (without MPIM)
976136	80-Indicator Module (1 MPIM)
976137	80-Indicator Module (2 MPIMs)
976138	80-Indicator Module (without MPIM)
976139	Blank Module (full)
976165	TLI-530 TFXnet Network Interface Module
976166	TLO-530 Fiber Optic Modem Module
976167	TLD-530 TFXnet Line Driver Module
976168	TLB-530 TFXnet Baseboard
976169	TLA-530 TFXnet Adaptor Board
976170	Auxiliary Mounting Plate
976184	IXM-500 CMA Motherboard
976185	IXA-502CMA Contact Monitor Module
976186	OXA-501SDA Signal Driver Module (Plug-in)
976187	OXA-501RM Relay Module
976216	OXA-504SDA Signal Driver Module
976217	OXA-502SDA Signal Driver Module (Plug-in)
976218	OXA-503SDA Signal Driver Module
976250	End-of-line Resistor, 27 k-ohm
976253	OXM-501 RM/SDA Motherboard
976258	OXA-502RM Relay Module
976259	OXA-503 Relay Module (plug-in)
976262	Serial Interface Module
976264	LX-300 9-Pin Dot Matrix Printer
976297	TFX-500 Main Processor EPROM, Version 10
976298	TFX-800 Main Processor EPROM Version 10
976299	TFX-800 ALXM EPROM Version 10
976301	TFX-500 Main Processor EEPROM Version 10
976302	TFX-800 Main Processor EEPROM Version 10
976303	TFX-800 ALXM EEPROM Version 10
976375	MDM521 Multi-Detector Monitor Module
976377	505SDA Notification Appliance Module
976378	506SDA Notification Appliance Module
976382	TFX-XA Interface Module
976383	TFX-XA Expansion Board
976411	LED Kit for FCMs
976421	Local Fire Control Module
976421S	Local Fire Control Module (with plug-in LEDs)
976422	TFX-400 Fire Control Panel Assembly

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