

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

BRIDGE – incompatible equipment
AUTOMATE – repetitive and conditional events

“Smart” control
where you need it most

- ☑ *CONTROL GLUE*
- ☑ *PRODUCTION AUTOMATION*
- ☑ *AUTOMATE WHAT'S LEFT*

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

DESIGNED FOR **NON-PROGRAMMERS**:

Configure using any standard web browser

Quickly and easily configure GPIs and GPOs as needed

Latch, momentary, active high, active low

Powerful Event Monitor Table: Assign Event In → Action Out



“IT PUT’S A BRAIN IN YOUR CONTROL SYSTEM”

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR *Safe interconnect!!*

**32 GPOs
Relay Contact
Closures
(Isolated 2-wire)**

**Four
Serial Ports
RS422/ RS232**



**32 GPIs
Opto-isolated
(Isolated 2-wire)**

**Dual
Ethernet Ports
10/100**

Isolated inputs and outputs provide fast and safe connection between equipment—without fear of damage due to dissimilar voltage requirements, signal levels, or grounding.

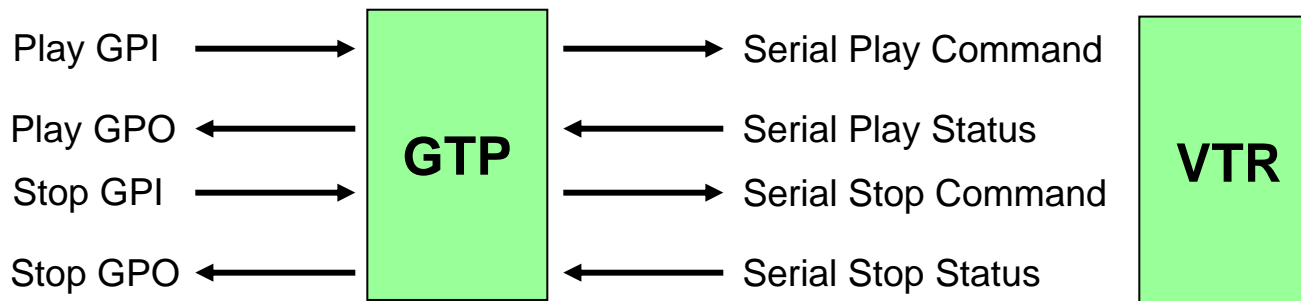
GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR CROSS-INTERFACE BRIDGE

GPI (Input) to GPO (Output)

Latching IN	→	Latching OUT
Latching IN	→	Momentary(100ms) OUT
Momentary IN	→	Latching OUT
Momentary (30ms) IN	→	Momentary (100ms) OUT
Momentary (250ms) IN	→	Momentary (30ms) OUT
Pull to Voltage	→	Pull to Ground

Serial ⇔ GPI/O

GPI to serial command
Serial status to GPO



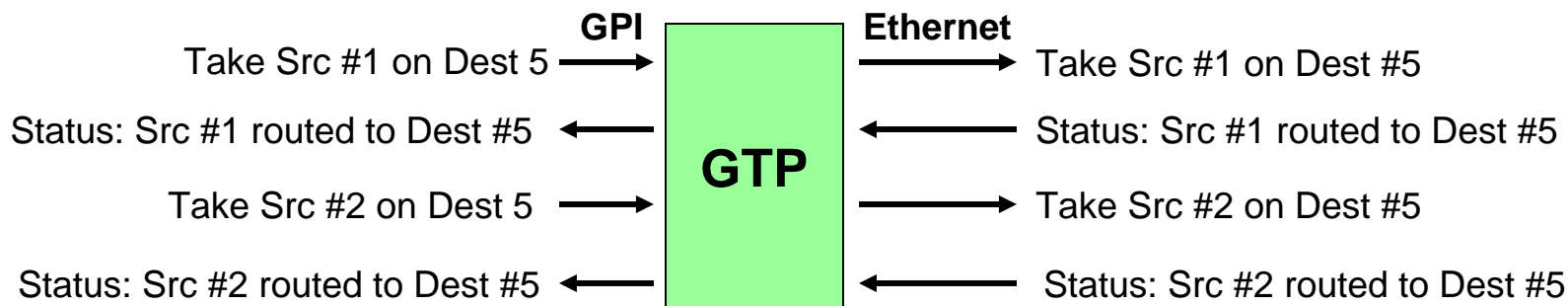
GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

CROSS-INTERFACE BRIDGE

Ethernet ↔ GPI/O

GPI to Ethernet command
Ethernet status to GPO

Router Control



Ethernet ↔ Serial

Automate Router Source Selection



Automatic Router Selection Rules-

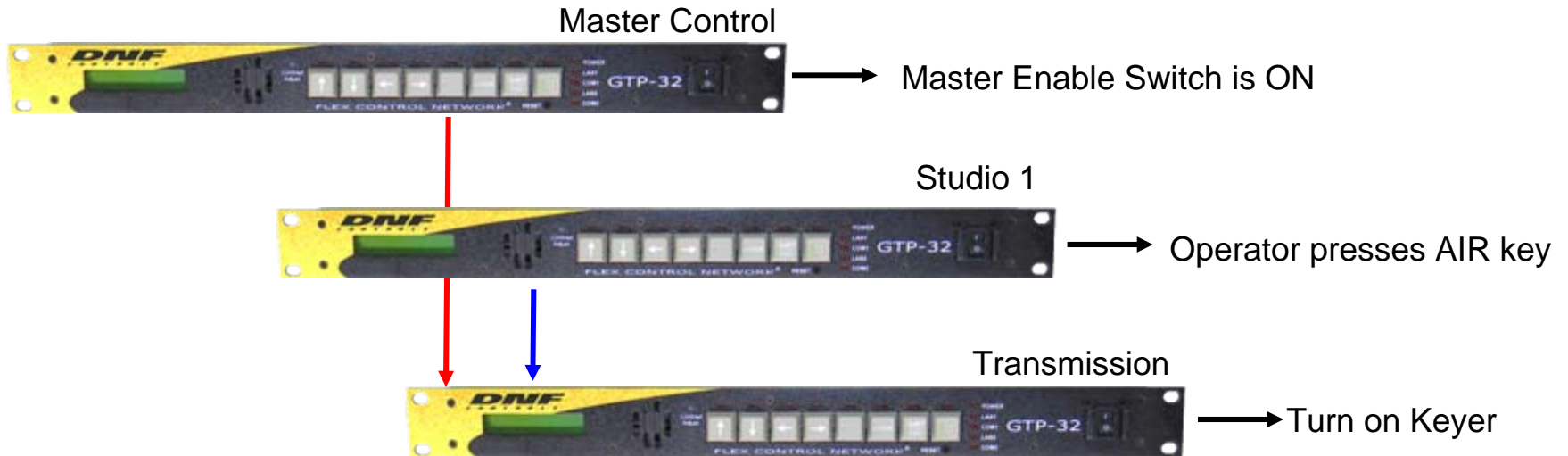
When VTR 102 is in Play, automatically switch router to Source #3

When VTR 204 is in Play, automatically switch router to Source #4

When both VTRs 102 & 204 are in Play, automatically switch router to Source #3

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

Networked Rules

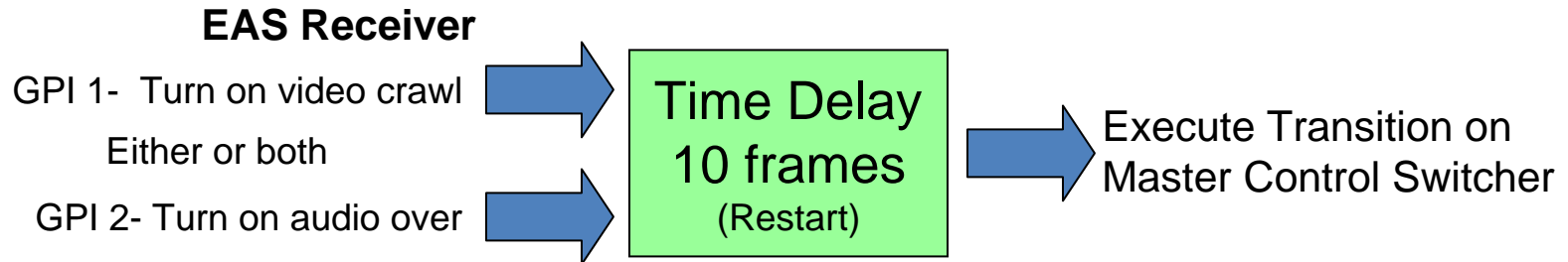


Master Enable Switch is ON + Operator presses AIR key = Turn on Keyer

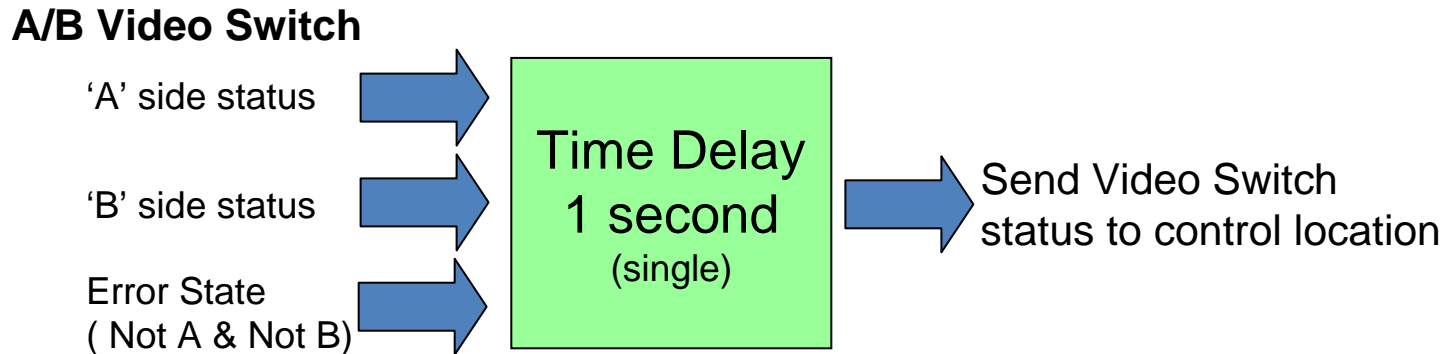
Event In + Event In = Action Out

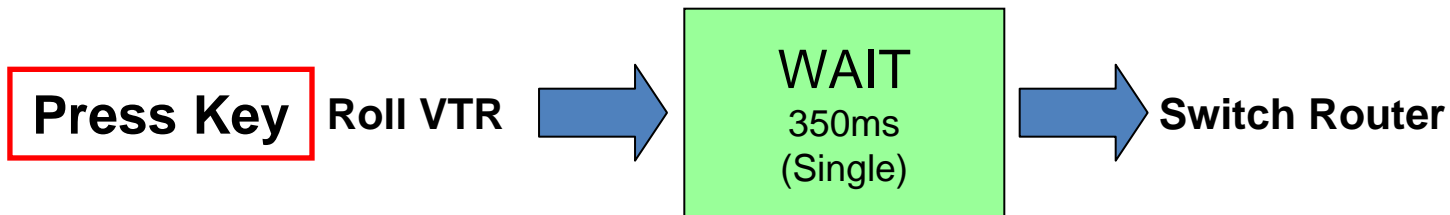
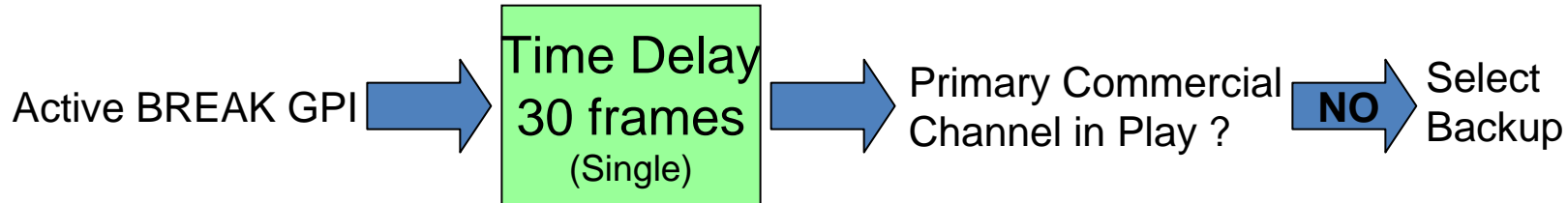
GTP-32 PROGRAMMABLE TIME DELAY

Designing For Unknowns



Filter Out Erroneous Device Status



*GTP-32 PROGRAMMABLE TIME DELAY*Pause Between ActionsImplement Redundancy

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

"It's in there" No external adapters required

- Momentary GPIs will not detect OFF state change.
- For normal operation use Latched GPIs.

[Edit / Backup / Restore / Create Default /](#) GPO Configuration Table

[Edit / Backup / Restore / Create Default /](#) GPI Configuration Table

GPO CONFIGURATION TABLE

[Refresh](#)

GPO#	Label	Current State	User Defined "ON" State	User Defined "ON" Mode	On time (*10 ms)	Transition Delay (*10 ms)	Debounce Time (*16 ms)
1	LatchingOut_1	OFF	Relay Closed	Latched	1	0	1
2	LatchingOut_2	OFF	Relay Closed	Latched	1	0	1
3	MomentOut_1	OFF	Relay Closed	Momentary	10	0	1
4	MomentOut_2	OFF	Relay Closed	Momentary	10	0	1
5	LatchOpen_1	OFF	Relay Open	Latched	1	0	1
6	LatchOpen_2	OFF	Relay Open	Latched	1	0	1
7	MomentOpen_1	OFF	Relay Open	Momentary	100	0	1
8	MomentOpen_2	OFF	Relay Open	Momentary	100	0	1
9	GPO_9	OFF	Relay Closed	Latched	1	0	1
10	GPO_10	OFF	Relay Closed	Latched	1	0	1
11	GPO_11	OFF	Relay Closed	Latched	1	0	1
12	GPO_12	OFF	Relay Closed	Latched	1	0	1
13	GPO_13	OFF	Relay Closed	Latched	1	0	1
14	GPO_14	OFF	Relay Closed	Latched	1	0	1

GPI CONFIGURATION TABLE

[Refresh](#)

GPI#	Label	Opto Isolator State	GPI CURRENT EVENT STATE	Configuration		
				User Defined "ON" State	User Defined "ON" Mode	Debounce (*10 ms)
1	Latch_1	Deenergized	OFF	OPTO ON	Latched	1
2	Latch_2	Deenergized	OFF	OPTO ON	Latched	1
3	Moment_1	Deenergized	OFF	OPTO ON	Momentary	1
4	Moment_2	Deenergized	OFF	OPTO ON	Momentary	1
5	Moment_3	Deenergized	OFF	OPTO ON	Momentary	100
6	Moment_4	Deenergized	OFF	OPTO ON	Momentary	100
7	LatchOff_1	Deenergized	ON	OPTO OFF	Latched	1
8	LatchOff_2	Deenergized	ON	OPTO OFF	Latched	1
9	MomentOff_1	Deenergized	OFF	OPTO OFF	Momentary	100
10	MomentOff_2	Deenergized	OFF	OPTO OFF	Momentary	100
11	GPI_11	Deenergized	OFF	OPTO ON	Latched	1
12	GPI_12	Deenergized	OFF	OPTO ON	Latched	1
13	GPI_13	Deenergized	OFF	OPTO ON	Latched	1

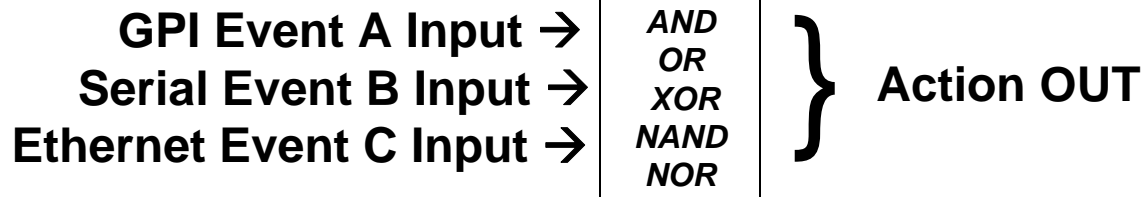
**GPO ON= Relay Open or Relay Closed
Momentary or Latch**

**GPI ON= Opto energized or de-energized
Momentary or Latch**

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

Simple to configure; Simple to re-configure

Rules-based automation:



COMBINATORIAL EVENT DEFINITION TABLE

Refresh

Event Label	Combinatorial Event Definition	Enabled?
DIY_SD_GoToA	(USP1_DIY_SD OR USP3_DIY_SD) AND DIY_SD_B_Stat AND (NOT DIY_SD_A_Stat)	YES
DIY_SD_GoToB	(USP1_DIY_SD OR USP3_DIY_SD) AND DIY_SD_A_Stat AND (NOT DIY_SD_B_Stat)	YES
ET_DIY_SD_A	DIY_SD_A_Stat AND NOT DIY_SD_B_Stat	YES
ET_DIY_SD_B	DIY_SD_B_Stat AND NOT DIY_SD_A_Stat	YES
ET_DIY_SD_ERR	NOT HGTV_E_A_Stat AND NOT HGTV_E_B_Stat AND NOT FLN_SD_A_Stat AND NOT FLN_SD_B_Stat	YES
ET_FLN_SD_A	FLN_SD_A_Stat AND NOT FLN_SD_B_Stat	YES
ET_FLN_SD_B	FLN_SD_B_Stat AND NOT FLN_SD_A_Stat	YES
ET_FLN_SD_ERR	NOT HGTV_E_A_Stat AND NOT HGTV_E_B_Stat AND NOT FLN_SD_A_Stat AND NOT FLN_SD_B_Stat	YES
ET_Food_E_A	Food_E_A_Stat AND NOT Food_E_B_Stat	YES
ET_Food_E_B	Food_E_B_Stat AND NOT Food_E_A_Stat	YES
	NOT HGTV_E_A_Stat AND NOT HGTV_E_B_Stat AND NOT FLN_SD_A_Stat AND	

Add Combinatorial Source Definition

Event Label

Available Source Events

Operators

Combinatorial Event Definition

Enabled?

Save & Exit

Select one ...

Select one ...

GPI EVENTS:

- HGTV_E_A_Stat
- HGTV_E_B_Stat
- HGTV_W_A_Stat
- HGTV_W_B_Stat
- HGTV_HD_A_Stat
- HGTV_HD_B_Stat
- Food_E_A_Stat
- Food_E_B_Stat
- Food_W_A_Stat
- Food_W_B_Stat
- Food_HD_A_Stat
- Food_HD_B_Stat
- GAC_A_Stat
- GAC_B_Stat
- DIY_SD_A_Stat
- DIY_SD_B_Stat
- FLN_SD_A_Stat
- FLN_SD_B_Stat

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR

Assign: 1 Event IN → 1 Action OUT
1 Event IN → Many Actions Out

Add / Edit / Delete / Backup / Restore Channel Event
 Create Default Event Monitor Table
 Currently used file is EVNT34.db.

Refresh

Last Refreshed: February / 26 / 2010 13:50:03

Update Connections

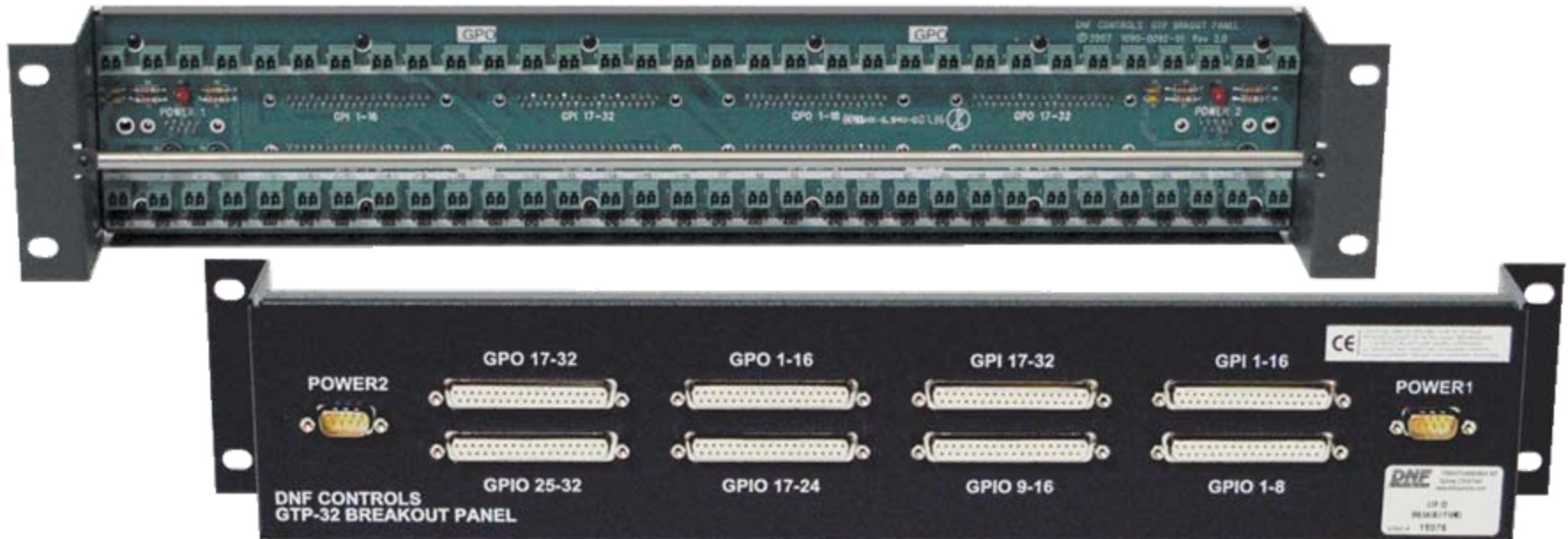
EVENT MONITORING TABLE

Status	Source IP	Connection Status	Event Label	Event Status	Frequency	GPO Label	ON Function	OFF Function
Enabled	0.0.0.0	Local	DIY_SD_GoToA	OFF	Repetitive	GPO_16	Turn Off GPO	Do Nothing
Enabled	0.0.0.0	Local	DIY_SD_GoToA	OFF	Repetitive	GPO_16	Turn On GPO	Do Nothing
Enabled	192.168.10.213	Remote	GPI_21	OFF	Repetitive		CH_1_PLAY	CH_1_STOP
Enabled	0.0.0.0	Local	DIY_SD_GoToB	OFF	Repetitive		TAKE_2_10	Do Nothing
Enabled	0.0.0.0	Local	FLN_SD_GoToA	OFF	Repetitive		TAKE_5_10	Do Nothing
Enabled	0.0.0.0	Local	FLN_SD_GoToA	OFF	Repetitive	GPO_17	Turn On GPO	Do Nothing
Enabled	0.0.0.0	Local	FLN_SD_GoToB	OFF	Repetitive	GPO_17	Turn Off GPO	Do Nothing
Enabled	0.0.0.0	Local	FLN_SD_GoToB	OFF	Repetitive	GPO_18	Turn On GPO	Turn Off GPO
Enabled	0.0.0.0	Local	GPI_17	OFF	Repetitive		BUG_1_ON	Do Nothing
Enabled	0.0.0.0	Local	GPI_18	OFF	Repetitive		BUG_2_ON	Do Nothing
Enabled	0.0.0.0	Local	GPI_19	OFF	Repetitive		BUG_3_ON	Do Nothing
Enabled	0.0.0.0	Local	Food_East_GoToB	OFF	Repetitive	MomentOpen_2	Turn On GPO	Do Nothing
Enabled	0.0.0.0	Local	Food_East_GoToA	OFF	Repetitive	GPO_19	Turn Off GPO	Do Nothing

Event IN



Action OUT

GTP-32 BREAKOUT PANEL

- Fast and simple Phoenix style 2 wire connectors
- WET or DRY GPI Inputs, jumper selectable
- Dual WET power supplies included

GTP-32 PROGRAMMABLE-LOGIC CONTROL PROCESSOR
GTP-32 BREAKOUT PANEL

For more information or to arrange a demonstration,
please contact us at:

sales@dnfcontrols.com

or

818-898-3380