

Summary	Installation of Hard Wired Loop Module				
Products Affected	All Rytec Door Controllers				
Key Word Tags	Loop Module, Hard Wire, Aftermarket				
Tools/Equipment (If Required)	Wire Stripper, Wire Cutter, Terminal Screw Driver				
Parts/Materials (If Required)	R0012117				
Related Media					
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Please Read Entire Bulletin Before Proceeding

Caution: Installation of this loop detector should be performed by a qualified Technician.

The MVP D-TEK series loop detector can be installed in any Rytec door. Rytec Corporation has used 120 VAC, 24 VAC and 24VDC controls in the doors in the past. This unit is a direct replacement for all of them.



The disconnect must be in the OFF position and properly locked and tagged before performing the next step of the procedure.

Connecting Harness color code for Vehicle Loop Detector MVP D-TEK.

The Loop Detector MVP D-TEK can use any power 12 VDC to 240VAC input voltage.

PIN	HARNESS WIRE COLOR CODE	LOOP DETECTOR PIN CONNECTION
1	Black	+12 VDC/24VAC line
2	White	-12VDC/24VAC neutral
3	Orange	Output B Relay, N.O.
4	Green	Chassis Ground
5	Yellow	Output A Relay, COM.
6	Blue	Output A Relay, N.O.
7	Gray	Loop
8	Brown	Loop
9	Red	Output B Relay, COM.
10	Pink (Violet on older cables)	Output A Relay, N.C.
11	Violet (White/Green on older cables)	Output B Relay, N.C.

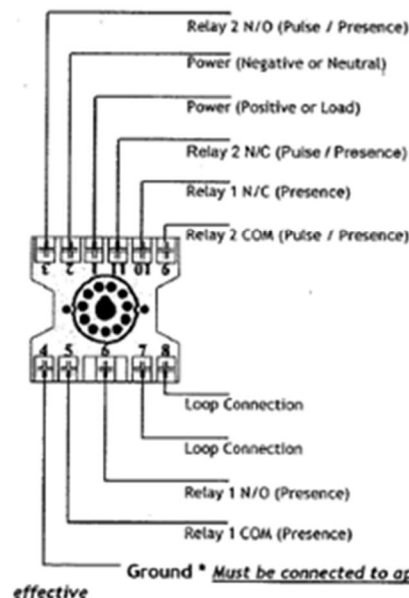
Controls, Indicators and Connections

Front

POWER	LED
Green T-1 Glows when power is applied	
DETECT	LED
Red T-1½ Glows to indicated detection	
FREQUENCY COUNTER	Momentary Switch
Pull up toward Power LED and release	
RESET	Momentary Switch
Push down toward Freq. and release	
FREQUENCY	Three Position Switch
Low, High, Medium	
Unit must be reset after any change!	

Back

SENSITIVITY	BCD Switch
0,1,2,3,4,5,6,7,8,9 must be on a number	
DIP SWITCH FUNCTIONS	Dip Switch
OFF	ON
1 Pulse on Relay 2	Presence on Relay 2
2 Pulse on Detect	Pulse on Un-detect
3 Constant Presence	4 minute limited presence time
4 "Fail Secure"	"Fail Safe"
5 Filter OFF	Filter On
6 ASB OFF	Automatic Sensitivity Boost
7 Extend Detect	6 seconds
8 Extend Detect	3 seconds
DIP 7 & 8 ON Extend time is 9 seconds	



CONNECTIONS		86CP11 PIN CONNECTOR
PIN	FUNCTION	HARNESS
1	POWER +	WHITE
2	POWER -	BLACK
3	RELAY 2 N/O (PULSE OR PRESENCE)	ORANGE
4*	EARTH GROUND *	GREEN
5	PRESENCE RELAY (1) COM	YELLOW
6**	PRESENCE RELAY (1) N/O	BLUE
7	LOOP (Twisted leads)	GRAY
8	LOOP (Twisted leads)	BROWN
9	RELAY 2 COM (PULSE OR PRESENCE)	RED
10**	PRESENCE RELAY (1) N/C	PINK
11	RELAY 2 N/C (PULSE OR PRESENCE)	VIOLET

* NOTE: Pin 4 must be connected to earth ground for surge protection to be effective.
 ** NOTE: Functions on pins 6 and 10 are reversed if DIP switch 4 is set to OFF "Fail Secure" operation

How to differentiate between Digital Gateway DG 1100, DG 1215, and DG 1200.

Digital Gateway 1200 is a 24 VAC door control unit. DG 1200 is printed in the lower right corner of the controller.

Digital Gateway 1215 is a 120 VAC door control unit. DG 1215 is printed in the lower right corner of the controller.

Digital Gateway 1100 is a 120 VAC door control unit. The DG 1100 has three sets of up and down arrows located directly below the red LED display.

Relay logic controller: Caution: Relay logic boards have been made in 24Vac and 120Vac. If you are not certain of the control voltage, please contact Rytec Customer Support at 1-800-628-1909 with the door serial number.

Electrical connections for the System 3 Controller using 24VDC

- Plug in loop detector to connecting harness provided.
- Connect black wire (12VDC-240VAC Line) supply to terminals #31.
- Connect white wire (12VDC-240VAC Line) to Terminal 32.
- Connect yellow wire (output A Relay, COM terminal #5) to terminal #13, 15, or 17 for the System 3.
- Connect blue wire (output A Relay N.O. terminal #6) from the loop detector to corresponding terminal #14, 16, or 18 of the System 3.
- Connect the loop wires to Gray and Brown.

Electrical connections for the DG 1200,1215, and 1100 Gateway using 12 VDC

- Plug in loop detector to connecting harness provided.
- Connect black wire (12VDC-240VAC Line) supply to terminals #29 of DG1200.
- Connect white wire (12VDC-240VAC Line) and yellow wire (output A Relay COM terminal #5) from the loop detector to terminal #31 of DG1200, DG1215, and DG1100.
- Connect blue wire (output A Relay N.O. terminal #6) from the loop detector to terminal #30 of DG1200, DG1215, and DG1100.
- Connect the loop wires to Gray and Brown.

Electrical connections for the DG 1200 Gateway using 24 VAC

- Plug in loop detector to connecting harness provided.
- Connect black wire (12VDC-240VAC Line) supply to terminals #1(24 VAC) DG1200.
- Connect white wire (12VDC-240VAC Line) to Terminals X2 DG1200.
- Connect blue wire (output A Relay N.O. terminal #6) from the loop detector to terminal #1 for the DG1200.
- Connect yellow wire (output A Relay, COM terminal #5) from the loop detector to terminal #14 auto input for the DG1200.
- Connect the loop wires to Gray and Brown.

Electrical connections for the DG 1215 or DG1100 Gateway 120 VAC

- Plug in loop detector to connecting harness provided.
- Connect black wire (12VDC-240VAC Line) supply to terminals #1.
- Connect white wire (12VDC-240VAC Line) to Terminal X3.
- Connect yellow wire (output A Relay, COM terminal #5) to terminal #10 common for the Digital Gateway.
- Connect blue wire (output A Relay N.O. terminal #6) from the loop detector to terminal #14 for the Digital Gateway.
- Connect the loop wires to Gray and Brown.

If you have any questions, contact Rytec Customer Support at 1-800-628-1909