

# E-S1600/02 - Diablo Controls Loop Detector (DSP-6LP) \*AS A SAFETY DEVICE\*

1. Connect **NC (RELAY)** on the loop detector to one of the opening safety terminal (**FSW OP**) or closing safety terminal (**FSW CL**) or **both** on terminal block CN4. See charts below to see results of using a safety device in in those terminals and in different logics.
2. Connect **COM (RELAY)** on the loop detector to **Terminal COM** on terminal block CN4.
3. Connect **COM (POWER)** on the loop detector to **Terminal 24V-** on terminal block CN1.
4. Connect **PWR (POWER)** on the loop detector to **Terminal 24V+** on terminal block CN1.
5. Connect your buried loop to the two **LOOP** terminals on the loop detector.  
Terminal **NO** is not used.

<b>Auto Close ON / C=1</b>		Below is a description of what the gate will do when the safety device is triggered during different phases of the gates cycle.	
<b>Gate Status</b>	Device in FSW OP	Device in FSW CL	Device in both
Closed	Disables opening	N/A	Disables Opening
Open	N/A	Locks pause time	Locks pause time
Closing	N/A	Reverses motion	Stops/reverses
Opening	Stops/resumes	N/A	Stops/resumes

<b>Auto Close OFF / C=0</b>		Below is a description of what the gate will do when the safety device is triggered during different phases of the gates cycle.	
<b>Gate Status</b>	Device in FSW OP	Device in FSW CL	Device in both
Closed	Disables opening	N/A	Disables Opening
Open	N/A	Disables closing	Disables closing
Closing	N/A	Reverses motion	Stops/reverses
Opening	Stops/resumes	N/A	Stops/resumes

# **E-S1600/02 - Diablo Controls Loop Detector (DSP-6LP) \*AS AN OPENING DEVICE\***

1. Connect **NO (RELAY)** on the loop detector to **Terminal OPEN A** on terminal block CN4.
2. Connect **COM (RELAY)** on the loop detector to **Terminal COM** on terminal block CN4.
3. Connect **COM (POWER)** on the loop detector to **Terminal 24V-** on terminal block CN1.
4. Connect **PWR (POWER)** on the loop detector to **Terminal 24V+** on terminal block CN1.
5. Connect your buried loop to the two **LOOP** terminals on the loop detector.
6. Change your parameters to **C1, D0, E1**. They must be set this way to work with the loop properly.

Terminal **NC** is not used.