DL480 DL4 to DL1275 Adjusting Converter Owners Manual

The DL4 to DL1275 Adjusting Converter converts the pulse oriented DL4 input to a DL1275 output. A payout adjustment can be applied during the conversion. The adjustment can be configured to either multiply or divide the payout by a set factor, or to give a fixed quantity of tickets instead of the normal payout. The inputs and outputs can also be individually configured to use standard or inverted polarity.

Configuration

The DL480 has 2 push buttons and a set of 4 DIP switches that are used to configure it. Configuration settings are not changed until the entire procedure is completed. If you make a mistake, remove and reapply power, and then start over.



- 1. Connect the DL480 to power.
- 2. To enter programming mode. Press both buttons the same time. The LED will come on.
- 3. Set the DIP switches for the adjustment mode.

Table 1: Adjustment Mode

1	2	3	4	Mode
OFF	OFF	OFF	Χ	MULTIPLY
on	OFF	OFF	Х	DIVIDE – round down (drop remainder)
OFF	on	OFF	Х	DIVIDE – keeps remainder
OFF	OFF	on	Х	DIVIDE – round up
on	on	OFF	Х	FIXED

OFF = switch open, on = switch closed, x = either (not used).

4. Press either button to read the DIP switches. If the switch setting is valid the LED starts slowly blinking. If it does not start blinking check the switches and press the button again.

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5. Set the DIP switches for the adjustment value to use (see Table 2). Be sure to use the column in that corresponds to the adjustment mode you selected in step 3.

Table 2: Adjustment Value

1	2	3	4	Multiply Mode	Divide Modes	Fixed Mode
OFF	OFF	OFF	OFF	0	2	1
on	OFF	OFF	OFF	1	3	2
OFF	on	OFF	OFF	2	4	3
on	on	OFF	OFF	3	5	4
OFF	OFF	on	OFF	4	6	5
on	OFF	on	OFF	5	7	6
OFF	on	on	OFF	6	8	7
on	on	on	OFF	7	9	8
OFF	OFF	OFF	on	8	10	9
on	OFF	OFF	on	9	11	10
OFF	on	OFF	on	10	12	11
on	on	OFF	on	11	13	12
OFF	OFF	on	on	12	14	13
on	OFF	on	on	13	15	14
OFF	on	on	on	14	16	15
on	on	on	on	15	17	16

OFF = switch open, on = switch closed.

- 6. Press either button to read the DIP switches. The LED will blink faster.
- 7. Set the DIP switches for signal polarities and sample period (see Table 3). Then press either button to read the DIP switches. The polarities feature allows the DL480 to be used with games and dispensers which use non-standard signal polarities to prevent their use with standard equipment.

Table 3: Polarities and Sample Period

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Function	DIP Switch	OFF (open)	ON (closed)
Enable Signal Polarity	1	Standard	Reverse
Notch Signal Polarity	2	Standard	Reverse
DL4 Polarity	3	Standard (N.O.)	Reverse (N.C.)
Sample Period	4	1 second	5 seconds

The sample period controls how much time must elapse without receiving additional pulses before the board concludes that the payout session has ended and dispenses any remaining tickets. It is only used for *Divide – Round Down* and *Divide – Round Up* modes. Most games will be fine with 1 second, but some games give out tickets so slowly that the longer period is needed.

Help Mode

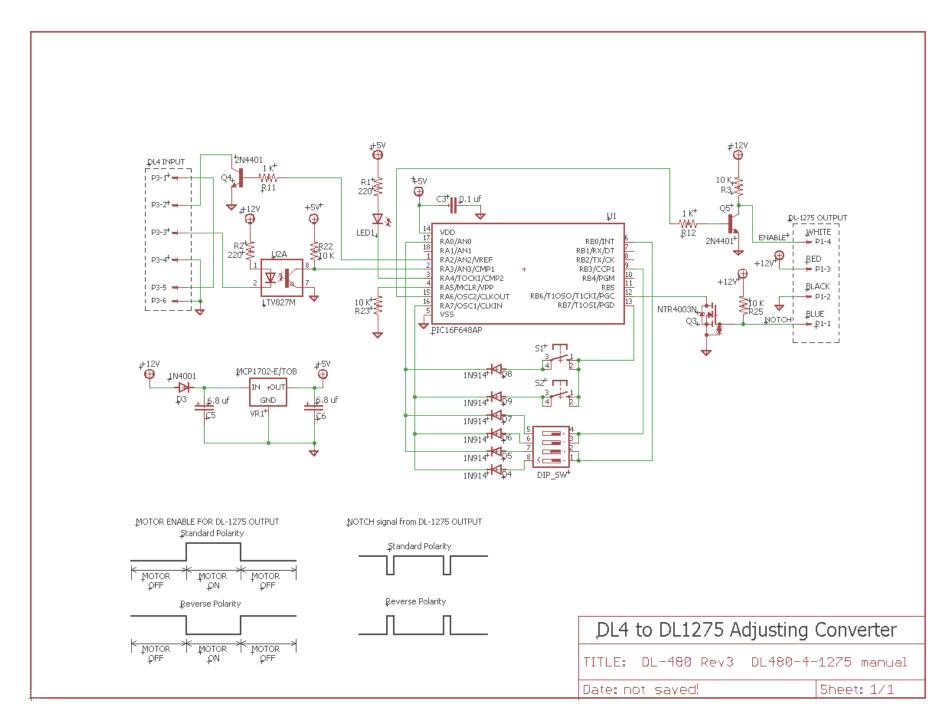
If the DL480 detects a problem it enters Help mode. In Help mode the LED blinks quickly. The most common problem is running out of tickets. After fixing the problem, press the button near the socketed chip. As long as power was not removed the DL480 will then dispense any tickets that are owed.

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While in Help mode the DL480 returns signals to the game so that the game does not enter an error mode. If the game does detect an error then the DL480 is hooked up incorrectly.

For technical help call (215) 997-8616.

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