

DIP SWITCH FUNCTIONS

11/16/06

IS _ _ - _ _ A-**R**- _ _ _ K

There are 4 dip switches on the top of all of the new quad IS **"R"** relays. The functions that are related to the dip switches are:

- Dip #1 Shorted and Open circuit sensing
- Dip #2 Alarm output for Open or Shorted on Output #1
- Dip #3 Reverse operation of outputs A and C
- Dip #4 Reverse operation of outputs B and D

Dip #1 - With the Shorted and Open sensing the IS relay monitors the IS inputs for a shorted condition or an open circuit. To do this a 10K Ω resistor in place in parallel (Open Circuit) with the float switch and a 1K Ω resistor is placed in series (Short Circuit) with the float switch. The resistors should be place as close to the float switches as possible.

Dip #2 - If you want to sense a Shorted or open condition, how you are you going to know? Flip #2 On and output contact A activates if you have a Shorted or Open input. We will do something funky with the LEDs to let you know which one has issues. By doing this on Output A, it means that your 2 channel relay just became a 1 channel relay with output A as the alarm. With a 3 or 4 channel, output A would still the alarm output.

Yes, if you turn on the alarm output function, you lose the function of Input A.

Dip #3 - Need reverse operation? Flip this Dip On and Outputs A and C reverse their operation. For example: with Input A open, output A will be closed. With Input A closed, Output A will be open.

Dip #4 - Need more reverse operation contacts? Flip this Dip On and Outputs B and D reverse their operation.

Need the whole IS relay reverse operation? Flip On Dips #3 & #4.

If you have Dip #1 On and have reversed the operation of any output, if a shorted or open circuit condition occurs, the output effected will remain Open.

DIP SWITCH FUNCTIONS

11/16/06

IS _ _ - _ _ _ A-**L**- _ _ _ K

There are 4 dip switches on the top of all of the new quad IS "**L**" relays. The functions that are related to the dip switches are:

- Dip #1 On – Pump A is always lead, no automatic alternation
- Dip #2 On – Pump B is always lead, no automatic alternation
- Dip #3 Off – Normally Open float switches, typical pump down operation
 On – Normally Closed float switches, typical pump up operation
- Dip #4 Shorted and Open circuit sensing

Dip #1 – With Dip #1 On Pump output A will always come on first.

Dip #2 - With Dip #2 On Pump output B will always come on first.

Dip #3 – With Dip #3 Off, operation is based on all Normally Open float switches. This would be the typical application for a 4 float Pump Down controller with Cut-Off, Lead, Lag & High Alarm.

With Dip #3 On, operation is based on all Normally Closed float switches. This would be the typical application for a 4 float Pump Up controller. In this application:

- IS Input #D becomes the Cut-Off
- IS Input #C becomes the Lead
- IS Input #B becomes the Lag
- IS Input #A becomes the Low Alarm.

“Normal” position is determined with the float switch hanging down.

Dip #4 - With the Shorted and Open sensing the IS relay monitors the IS inputs for a shorted condition or an open circuit. To do this a 10KΩ resistor in place in parallel (Open Circuit) with the float switch and a 1KΩ resistor is placed in series (Short Circuit) with the float switch. The resistors should be place as close to the float switches as possible.

With Dip #4 On output contact D activates if you have a Shorted or Open input. We will do something funky with the LEDs to let you know which one has issues.