| CHDP $\square^{\circ}$ | SONARtrac ${ }^{\circledR}$ Technical Note |  |
| :---: | :---: | :---: |
|  | TN0003 <br> Subject: SONARtrac Alarm | Date: 5Jul07 |
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## Question:

Please provide recommended circuits for use with SONARtrac transmitter alarm contacts

## Answer:

An electrically isolated switch closure occurs between AL+ and AL- whenever the limits specified in the transmitter setup for Alarm are met. These limits can be changed or disabled through the local keypad and display. The maximum applied voltage between $A L+$ and local ground and AL- and local ground shall be within the range of $+30 \mathrm{~V} /-10 \mathrm{~V}$. The load current shall be a maximum of 100 mA .


Figure 1 Alarm Switch Closure

## External Circuits:

The following is a circuit example when the load is 100 mA maximum


Figure 2 Example Alarm Circuit Diagram With Load 100mA Maximum

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The following is a circuit example when the load is greater than 100 mA .


Figure 3 Example Alarm Circuit Diagram With Load Greater Than 100mA

Contact CiDRA Corporation Technical Support if additional information is required.

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|  | TN0003 | Date: 5Jul07 |
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## Revision History

| Rev | Date | Changed <br> By | Approved <br> By | Change Description |
| :--- | :--- | :---: | :--- | :--- |
| 01 | $8 / 22 / 07$ | B. Markoja | M. Sapack | Initial Release |
| 02 | $7 / 29 / 08$ | V. Rojas- <br> Haines | V. Rojas- <br> Haines | Update figures and name |
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