



Ultrasonic water sensor output (2 channels)  
 Even pins: GMB 0 Volts  
 Odd pins: 0.60 V to 3.00 V  
 (5±1 mA dry, 19±1 mA wet on 150 Ohms)

Outputs of U1 are normally high  
 Outputs of U2A, U2C are normally low  
 Outputs of U2B, U2D, U2E are normally high  
 Outputs of U3 are normally low  
 Outputs of U4 are normally low  
 Outputs of U5A are normally high  
 Outputs of U5B are normally low

Non-normal values mean that the ultrasonic water sensors have detected water in the drain pipe

Note about capacitors: 47 nF ceramic capacitors will do just as well as 100 nF caps, both for bypass and for C1, C5.

LEDs 2,3,5,6 are PCB-mountable SSF-LXH100 series, set to 10 mA  
 LEDs 7 and 8 are large 10mm diffused lens, set to 25 mA

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|---|--|--------------|
| "Card #5"   |  |              |
| Title<br>Schematic diagram for the card for the ULTRASONIC WATER DETECTORS for DIRC |  |              |
| Size<br>A   | Document Number<br>Created by Sasha Telnov (avtelnov@bl.gov) | Rev<br>1.3   |
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