

Table 1

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|----------------------|-----------------------------------|---|------|------|-----|----------|-----------|
| Test Writer: T08 | | | | | | | |
| Test Case: | | Proximity Sensor Subsystem | | | | Test ID: | RC360-t1 |
| Description | | This test case verifies that the distance sensing sub-system, which consists of 3 LEDs and an IR proximity sensor, works properly | | | | Type: | White box |
| Tester Information | | | | | | | |
| Name of Tester: | | Homer | | | | Date: | |
| Hardware Ver: | | 1.0 | | | | Time: | |
| Setup: | | | | | | | |
| Step | Action | Expected Result | Pass | Fail | N/A | Comments | |
| 1 | no object in range (over 30 cm) | green LED should be on, buzzer should be off | | | | | |
| 2 | object in medium range (30 cm) | yellow LED should be on, buzzer should be off | | | | | |
| 3 | object in close range (15 cm) | red LED should be on, buzzer should be on | | | | | |
| 4 | object goes back to medium range | red LED should turn off, buzzer should turn off, yellow LED should turn on | | | | | |
| 5 | object goes back out to far range | yellow LED should turn off, green LED should turn on, buzzer should still be off | | | | | |
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| Overall Test Result: | | | | | | | |