

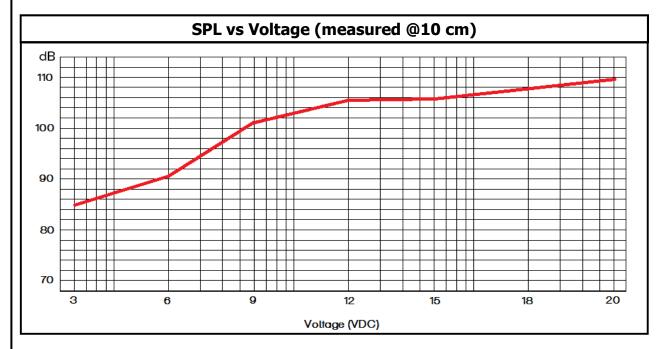
AI-4228-TF-LW140-3-R 42mm Indicator

3541 Stop Eight Road ● Dayton, Ohio 45414



Product Overview

- 42mm diameter, 3-20 VDC self-drive indicator
- High 105 dBA minimum output (12 VDC @ 10 cm) and 2.8 kHz continuous tone
- ABS housing with mounting tabs and 140mm lead wires for quick connection
- Piezo-based solution consumes only 10 mA of current





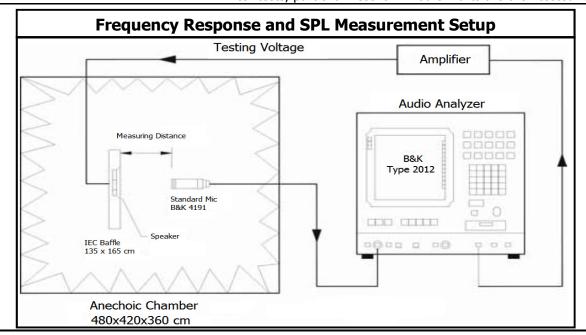


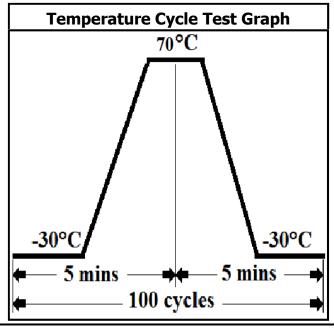




AI-4228-TF-LW140-3-R 42mm Indicator

| Mechanical and Environment Testing | | | | |
|------------------------------------|---|--|--|--|
| Test Description | Test Condition | | | |
| High Temperature | 70°C (±2°C) with random humidity for 96 hours | | | |
| Low Temperature | -30°C (±2°C) with random humidity for 96 hours | | | |
| Humidity | 40°C (±2°C) with 90% to 95% relative humidity for 96 hours | | | |
| Vibration | 0.75 mm movement modulated at 10-55 Hz for 3 hours | | | |
| Drop Test | 100 cm free fall onto wood board, 10 cycles | | | |
| Temperature Cycle Test | -30°C to 70°C, 100 cycles | | | |
| Δfter tests nart st | nall rest for 2 hours. Parts are then tested for clean, pure tones. | | | |





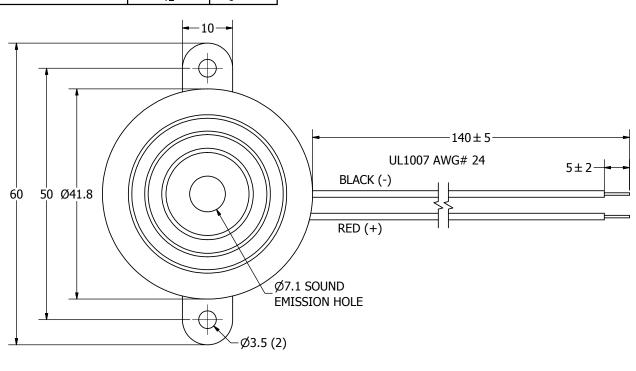
| SPECIFICATIONS | | | | | |
|-------------------------|-------------|--------------|--|--|--|
| PARAMETERS | VALUES | UNITS | | | |
| RATED VOLTAGE | 12 | Vdc | | | |
| OPERATING VOLTAGE RANGE | 3 ~ 20 | Vdc | | | |
| RATED CURRENT (MAX) | 10 | mA | | | |
| MINIMUM SPL @ 10 CM | 105 | dBA | | | |
| RESONANT FREQUENCY | 2,800 ± 500 | Hz | | | |
| TONE OR PULSE RATE | CONTINUOUS | 0 pulse /sec | | | |
| OPERATING TEMPERATURE | -20 ~ +60 | °C | | | |
| STORAGE TEMPERATURE | -30 ~ +70 | °C | | | |
| HOUSING MATERIAL | ABS | - | | | |
| TERMINAL MATERIAL | LEAD WIRE | - | | | |
| WEIGHT | 12 | grams | | | |

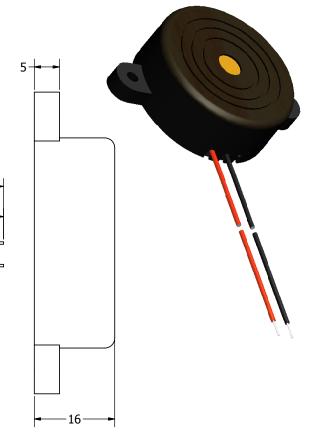
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| REVISION HISTORY | | | | | | |
|------------------|--|------------|----------|--|--|--|
| LTR | DESCRIPTION | DATE | APPROVED | | | |
| - | RELEASED FROM ENGINEERING | 8/16/2004 | | | | |
| Α | REVISED PART No. AND DIMENSIONS | 8/26/2004 | R.W. | | | |
| В | REMOVED LEAD FREE ADDED RoHS NOTE | 8/10/2005 | B.R. | | | |
| С | REVISED WIRE LENGTH FROM 215 TO 140 | 10/31/2005 | B.R. | | | |
| D | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 3/05/2008 | B.R. | | | |

Checked by





NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- 2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
- 3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

| NLESS OTHERWISE | | Designed by | Date | L |
|---|------------|-------------|--------------|---|
| SPECIFIED: | SIZE | R.A.C. | 8/16/2004 | |
| MILLIMETERS, | | α | 6 111 | |
| TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | A 3 | | pul | |

R.W. 8/16/2004 3/3/2008 AI-4228-TF-LW140-R

Date

Drawn Date

Approved by

Indicator Edition Sheet

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