

WDR WHISTLE DETECTOR RELAY SPECIFICATIONS

Physical

Size

Length: 4.7"

Width: 4.2"

Height: 1.4"

Weight

Less than 8 oz.

Environmental

Storage

Temperature: -40°C to 85°C

Humidity: 0% to 95%, non-condensing

Operating

Temperature: -40°C to 72°C

Humidity: 0% to 95%, non-condensing

Mounting

Can be secured to any flat surface

Cover includes mounting holes

Construction

Chassis

Fully enclosed, anodized aluminum

Electrical

Components mounted on internal PCB

Power

Voltage

8 to 36 Vdc

Current

70 mA maximum

Isolation

Relay Contacts

Minimum 3000 Vdc to all other points

MIC Inputs

Minimum 1500 Vdc to all other points

MIC Input

Transformer coupled, designed for 8 Ohm source impedance

Microphone or outdoor speaker can be used as the input source

Audio Sensitivity

Minimum 250 mVrms at MIC inputs, with maximum gain setting

Frequency Range

60 to 1000 Hz

Not frequency discriminatory

Detection Time

Adjustable from .5 to 10 seconds

Connector

Detachable, screw-down with 12 terminals, 12 to 22 AWG

Terminals 1 & 2: B, battery positive

Terminals 3 & 4: N, battery negative

Terminals 5 & 6: microphone

Terminals 7 & 10: normally open relay contact

Terminals 8 & 11: normally closed relay contact

Terminals 9 & 12: relay common

LED Indicators

Power: green

Sound: green

Relay: green

Controls

External

Potentiometer for adjusting audio level, single turn

Potentiometer for adjusting detection time, single turn

Internal

Jumper for setting audio gain, 26 dB (low) or 32 dB (high)

Output Relay

Operation

Operates when audio level and duration exceed their respective limit values

Type

Non-latching mechanical, dual SPDT contacts

Contacts

Rated Load: 1 A at 24 Vdc, .5 A at 125 Vac

Minimum Load: 1 mA at 5 Vdc

Maximum Operating Voltage: 60 Vdc, 125 Vac

Maximum Switching Capacity: 62.5 VA, 30 W

Service Life: 5 million mechanical (minimum), 1 million electrical (typical)