

Water Leak Detection Modules -Dual Zone

Product Overview

The AX-WLD2 is a range of DIN rail mounted two zone water leak detectors. Used with either a rain, water-point or cable sensor, this module can have a total of 300m(200m for AX-WCS) of cable connected to each input, including cable headers. The sensitivity is adjustable to ensure false returns are not given. The excitation signal generated by the unit ensures that the sensors do not degrade when exposed to damp for long periods. A relay output provides an alarm signal to a remote alarm annunciator or a BMS system. An optional integrated sounder is available (-A). Relay/LED action reversed on latching (-L) version.



Products Features

- Up to 300m cable on each zone
- Inputs from a mixture of cable, rain or point sensors
- Adjustable sensitivity on each zone
- LED indication of each channel
- Change-over relay output for connection to Alarm annunciator
- Integrated audible alarm option

Product Specifications

Supply Voltage	WLD2-24	24Vac @ 50Hz ±10% and 24Vdc ±10% at 50mA max
	WLD2-230	230Vac @ 50Hz ±15%
Relay		SPCO
Contact Rating		NO contact 5A, NC contact 3A at 250Vac, resistive load
Sensor Inputs		Two sets of terminals (each can take more than one sensor)
Sensor Types		Cable, Point or Rain (AX-WCS, AX-WCS-EL, AX-WPS, AX-WRS1)
Maximum Cable Length Per Input	WCS-EL/WPS/WRS1	300m including header cable
	WCS	200m including header cable
Sensor LED		ON when alarm detected. 1 per channel
Relay / LED		Normally off, on when alarm detected, COM to N/O
	-L version	Normally on ,off when alarm detected, COM to N/C
Alarm Hysteresis		Dependant on sensitivity setting
Audible Alarm Output	-A version	Multi-tone, 70db @ 10cm
Electrical Connections		Rising cage terminals for 0.5-2.5mm ² cable
Dimensions / Weight:	WLD2-24	82 x 45 x 47mm / 53gms
	WLD2-230	82 x 68 x 47mm / 155gms
Ambient Temperature Range		-10 to +50°C, 0-90% RH condensing
Country of origin		United Kingdom

Product Order Codes

Order Code	Description
AX-WLD2-24	Two zone water leak detection module 24V
AX-WLD2-24-L	Two zone water leak detection module 24V, latching
AX-WLD2-24-A	Two zone water leak detection module 24V c/w sounder
AX-WLD2-24-LA	Two zone water leak detection module 24V c/w sounder, latching
AX-WLD2-230	Two zone water leak detection module 230Vac
AX-WLD2-230-A	Two zone water leak detection module 230Vac c/w sounder
-E	Add -E for optional enclosure, e.g. AX-WLD2-230-E

Installation

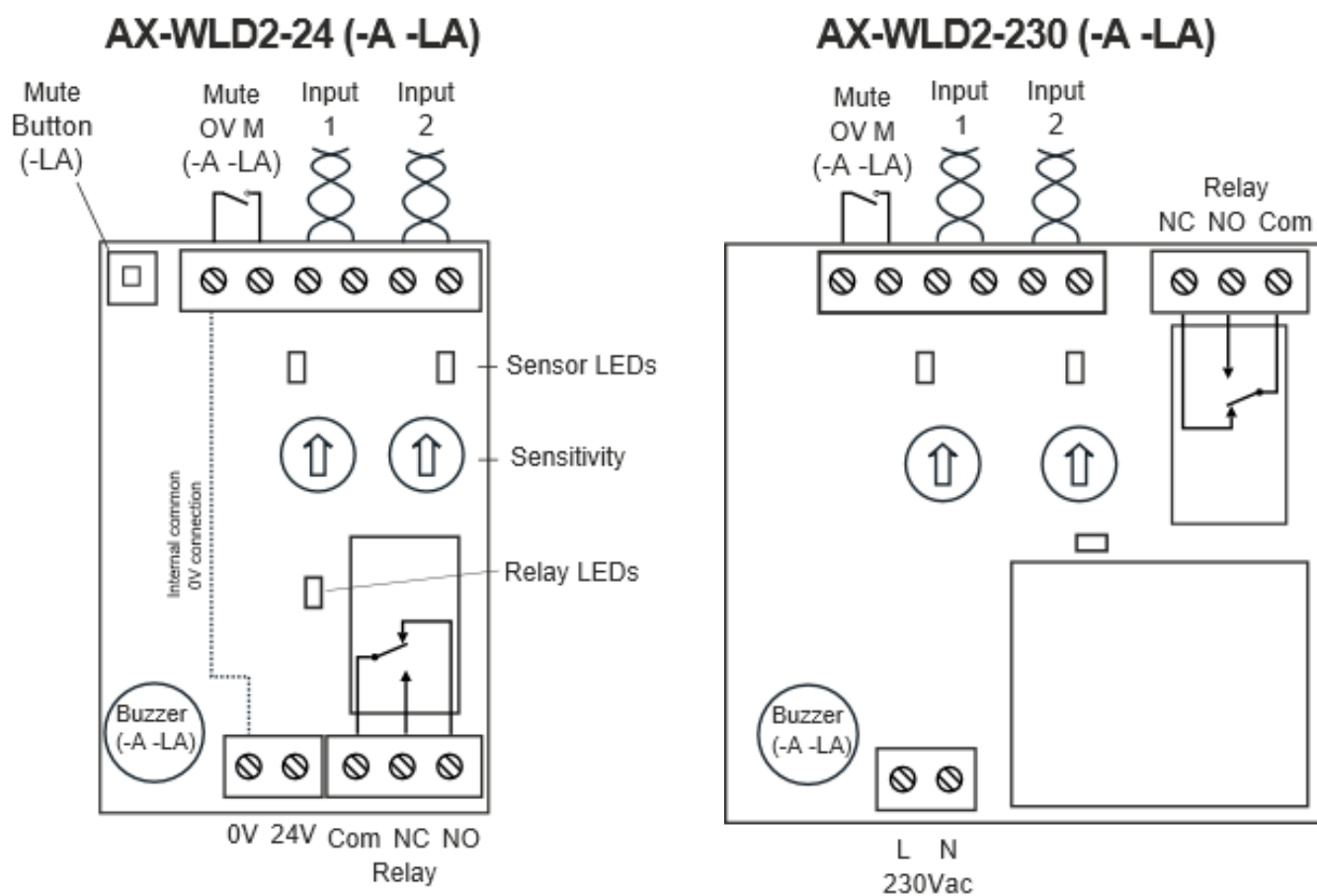
SAFETY NOTE

Ensure all installations are in compliance with applicable electrical codes and that the installation is carried out by qualified installers familiar with the relevant standards and proper safety procedures for high voltage installations. Never rely on status indication on any device to determine if power is present.

Mounting

The AX-WLD2 clips easily on to standard DIN Rail. If it is necessary remove the module from the DIN rail, ensure to use a flat bladed screwdriver to release the DIN clip.

Connections



Operation

Sensor LEDs

Off when sensor dry, will flash once per second. On when sensor wet, will blip once per second. A double flash/blip will occur when Mute input shorted or MUTE switch pressed

Latching version actions as above except when latched. If the sensor becomes dry the LED will flash on/off red indicating the input was wet. Press MUTE to clear indications when both inputs dry.

Sensitivity

Connect sensor cables and power the AX-WLD2 . Adjust the sensitivity potentiometers on each input by turning anti-clockwise until the 'Sensor LED' illuminates, and then clockwise until the 'Sensor LED' extinguishes. Less sensitivity may be needed when long runs of cable are used. Where very short cables are used the LED will not illuminate on maximum sensitivity.

Testing

To test the installation put a wet cloth over the sensor cable, the relay will switch. Remove the cloth and when the cable dries the relay will switch back to the non alarm state, for latching versions the mute switch will also have to be pressed.

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Relay and sounder actions

Relay and sounder actions differ depending on version

Non latching versions

The relay switches on when any sensor cable wet and off when both sensor cables are dry.

Non latching alarm versions (-A)

Relay actions as above. The sounder switches on when any sensor cable wet and off when both sensor cables are dry. This can be silenced by shorting the mute input and will not sound again until both sensor cable have dried and one becomes wet again.

Latching version (-L / -LA)

Relay actions reversed, relay on when cable dry. Relay off and sounder on when cable wet. Relay and sounder latched and can only be reset when both sensor cables are dry by pressing the mute button or shorting mute input.

Datasheet Contents

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