

Product Overview

The AX-WLD2 is a range of two zone waterleak detection modules designed for DIN rail mounting. The waterleak module can have a total of 200 m of cable connected to each input(cable and header). A relay output provides an alarm signal to a remote alarm annunciator or a BMS system. The sensitivity is adjustable to ensure false returns are not given . An optional alarm buzzer can be incorporated

Features

- A total of 200m cable on each zone
- Adjustable sensitivity on each zone
- Can take inputs from a mixture of cable sensors, rain sensors or point sensors
- Audible alarm option
- LED indication of each channel alarm
- Normally open and closed contacts
- Relay output to BMS or Alarm annunciator

Product Specifications

Supply Voltage:	WLD2-24	24Vac@50Hz +/- 10% and 24Vdc +/-10%
	WLD2-230	230Vac@50Hz +/- 15%
Supply Current		50mA max
Relay:		SPCO
Contact rating:		10A@250Vac resistive
Sensors Inputs:		Two sets of terminals (each can take more than one sensor)
Sensor Types:		Cable, Point or Rain
Maximum Cable Length Per Input:		200m
Sensor LED Status:		ON when energised. 1 for each channel
Relay LED Status:		ON when energised
Alarm Hysteresis:		Depends on sensitivity setting
Audible alarm output		(if -A version) 75db@10cm (when fitted)
Electrical Connections		Rising cage terminals for 0.5-2.5mm ² cable
Dimensions:	WLD-24	82 x 45 x 47mm 53 gms
	WLD-230	82 x 68 x 47mm 155 gms
Ambient Range:		-10 to +50deg C, 0-90% RH condensing
Country of Origin:		U.K.

For technical details on the sensors

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AX-WLD2

Waterleak Detection Modules - Dual Zone



Order Codes:

AX-WLD2-24	24V Alarm one or two zone detection module
AX-WLD2-230	230Vac Alarm one or two zone detection module
AX-WLD2-24-A	24V Alarm one or two zone detection module + alarm buzzer
AX-WLD2-230-A	230Vac Alarm one or two zone detection module + alarm buzzer
AX-WCS-5	Cable sensor for WLD, 5m cable 3m header
AX-WCS-10	Cable sensor for WLD, 10m cable 3m header
AX-WCS-15	Cable sensor for WLD, 15m cable 3m header
AX-WCS-20	Cable sensor for WLD, 20m cable 3m header
AX-WCS-xx	Customer specified cable and header length
AX-WPS	Point sensor for WLD
AX-WRS1	Rain sensor with 1m cable for WLD

Installation

SAFETY NOTE:

Prior to Installation ensure that all power sources are disconnected and locked-out and remain locked out during Installation and set-up, as severe injury or death can result from Electric Shock due to contact with High Voltage Conductors. 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:

Mount the WLD2 taking care not to stress the pcb when fitting to the DIN rail. If it is necessary remove the module from the DIN rail ensure you use a flat bladed screwdriver to release the DIN clips.

Sensitivity:

Power the WLD2 and adjust the sensitivity potentiometers on each input by turning anti-clockwise until the LED comes on, and then back until the LED goes off. Less sensitivity may be needed when long runs of cable are used. Where short cables are used the LED may not come on even when set to maximum sensitivity.

Testing:

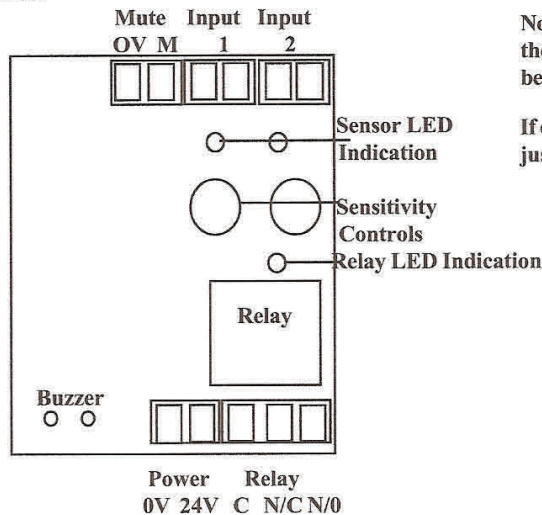
To test the installation put a wet cloth over the cable to simulate a water leak, the relay will come on. Remove the cloth and when the cable dries the relay will go off.

Audible Alarm Output:

If the audible alarm version is fitted and the unit is in alarm and you do not have a mute input you can silence the alarm by shorting across the mute terminals. This does not take the LED or relay out of alarm.

Connection

AX-WLD2



Notes;

the mute and buzzers connections will only be fitted if the -A alarm variant is ordered

If only one zone is to be monitored just connect sensor to input 1

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AX-WCS Cable Sensors



Technical Overview

The AX-WCS range of cable sensors are typically used to detect water leaks usually under floors, and are used in conjunction with the AX-WLD2 range of detection modules.

N.B. The cable excitation used from the AX-WLD2 is an isolated AC signal which ensures the detectors will not be subject to oxidation or erosion over time, avoiding the degradation problems associated with DC systems.

Features

- Easy to lay
- Detects water along its entire length

Specification

Material :	PVC Twisted pair with stainless 316 elements
Cable excitation:	isolated AC signal to ensure the detector cable is not subject to oxidation and erosion. 2Vac @200Hz approx
Response time:	<1 sec after exposure
Dimension :	3.5mm dia.
Maximum cable run :	200m (Including header cable)
Country of origin :	UK

Installation

1. Fit the cable sensors to the floor, using suitable fixings
2. Connect the 2-core leader cables to the AX-WLD2 alarm module and terminate at the relevant sensor input (polarity independent).
3. Power the AX-WLD2, and adjust the relevant potentiometers on the PCB anti-clockwise until the relevant LED comes on, and then back until the LED goes off (when short a cable is used the LED may not even come on when set to max sensitivity).
4. You can test the cables by placing a damp cloth over each of the cables to simulate a water leak, the relay will come on. Remove the cloth and when the cable dries the relay will go off.



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AX-WPS Point Sensors



Technical Overview

The AX-WPS water leak point sensor is used to detect water at a localised point, and are used in conjunction with the AX-WLD2 range of detection modules.

Features

- More than one can be connected to each AX-WLD2 sensor input
- Robust housing
- Slot lugs for easy installation

Specifications

Housing

Material:	Black ABS
Protection Rating:	UL94-HB
Cable length:	2m
Dimensions:	50 x 35 x 20mm

Probes:

Material:	Stainless steel
Dimensions:	13mm x 3mm dia.
Country of origin:	UK

Installation

1. Fix the AX-WPS in the location where leak detection is required.
2. The AX-WPS is fitted with a 2 meter leader cable that can be terminated at a junction box. This can then be lengthened to a maximum of 200 meters to the AX-WLD2 alarm module.
3. Connect the 2-core leader cable to the relevant sensor input on the alarm module (polarity independent).
4. Power the AX-WLD2, and adjust the relevant pot on the PCB anti-clockwise until the relevant LED comes on, and then back until the LED goes off
5. Test the sensor by placing a damp cloth over the stainless steel probes to simulate a water leak, the relay will come on. Remove the cloth and the relay will go off.
6. More than one AX-WPS can be connected to each sensor input on the alarm module, as long as the total cable run does not exceed 200 meters.

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AX-WRS Rain Sensors



Technical Overview

The AX-WRS1 range of rain sensors are used to detect rain. The surface of the detector can be heated to avoid false detection alarms resulting from dew forming. The detector can be swivelled on the mounting bracket and is held in place by a wing-nut. This device cannot be connected directly to a BMS controller, the AX-WLD2 module must be used.

Features

- Heater to avoid nuisance alarms
- Accurate switching

Specification

Housing:	
Material	ABS
Dimensions	70 x 30 x 45mm
Bracket	
Material:	Stainless steel
Country of origin	UK

Installation

1. Fix the AX-WRS in a suitable location, fix the bracket with suitable screws.
2. In a junction box terminate the cores at the terminal block.
3. From the junction box connect the cable to the AX-WLD2 alarm module and terminate the red and blue to the sensor input (polarity independent), and the yellow and green to a 24Vac/dc supply (if required).
4. Power the AX-WLD2, and adjust the relevant pot on the PCB anti-clockwise until the relevant LED comes on, and then back off
5. Test the sensor by placing a damp cloth over the stainless steel probes to simulate an water leak, the relay will come on. Remove the cloth and the relay will go off.

Connection

Red	To detector
Blue	To detector (polarity independent)
Yellow	Heater 24Vac/dc (40mA max.) (if fitted)
Green	Heater 0V (if fitted)



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