

Product overview

The AX-WLD-DT is a water level alarm module. It is intended for monitoring the condensate levels in drip trays or air-conditioning units. The unit comprises of two stainless steel probes and integrated electronics to operate a latching relay output. The probes are mounted at the level required to generate an alarm signal. The excitation signal generated by the unit for the sensor connections ensures that the probe do not degrade when exposed to damp for long periods. The relay output can be used to switch a compressor directly, or to provide an alarm signal to a remote alarm annunciator or a BMS system.



Product Features

- Change-over contacts on relay output
- Can switch compressor load directly
- Internal excitation of probes ensures long probe life.
- Can also be used as an alarm indicator to a BMS or remote alarm annunciator.

Product Specifications

Power supply:	24Vac @ 50Hz $\pm 10\%$ or 24Vdc $\pm 10\%$ at 50mA max
Relay:	SPCO
Contact rating:	12A, 250Vac, resistive load (Typically 6A maximum inductive load)
Relay output:	NO contacts are closed when alarm is clear
Relay LED Status:	ON when alarm is clear (i.e. when relay is energised)
Electrical Connections:	Rising cage terminals for 0.5-1.5mm ² cable
Dimensions:	92mm diameter x 52mm
Weight:	170g
Ambient temperature range:	-10 to $\pm 50^{\circ}\text{C}$, - 0-90% RH non-condensing
Ingress Protection:	IP65
Cable gland:	M20x1.5
Country of origin:	UK

Order codes

AX-WLD-DT	Drip Tray Monitor 24V
-----------	-----------------------

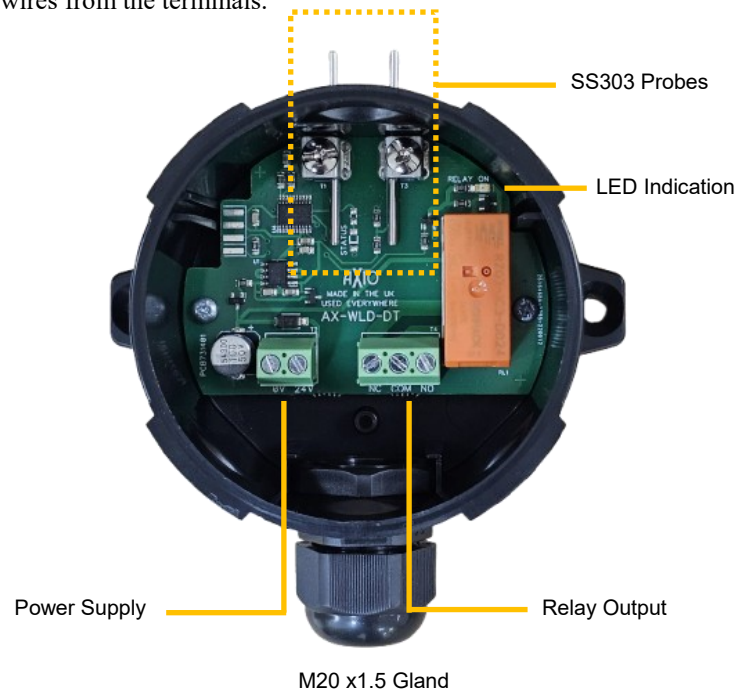
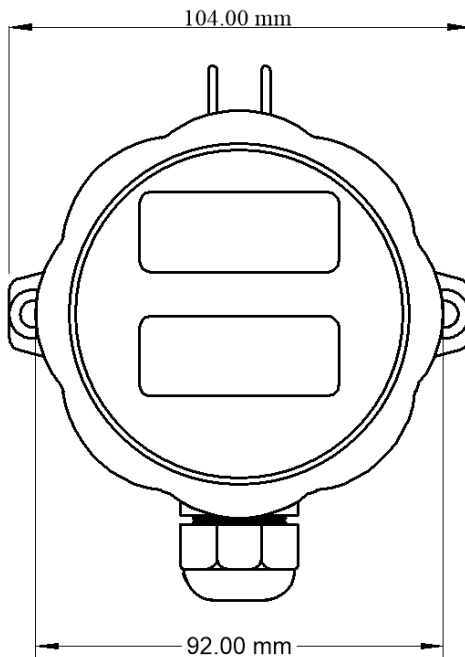
Installation

The unit should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Anti-static precautions must be observed when handling. The PCB contains circuitry that can be damaged by static discharge.

The unit should not be mounted where temperatures will exceed the ambient temperature range specified.

Switch off the power supply before connecting or disconnecting wires from the terminals.



Mounting

Standard Vertical Installation

The unit is designed for installation on a vertical surface, with the stainless steel probes oriented downward.

Secure the enclosure to a suitable mounting bracket using the integrated mounting tabs.

The installation height determines the water detection level; for rapid detection, position the probes as close as possible to the monitored surface.

Optional Horizontal Installation

If vertical mounting is not feasible, the unit may be installed horizontally.

In this configuration, adjustment of the probe length and orientation is required to achieve the desired detection height.

Probe Adjustment Procedure

To modify probe length or angle: a. Loosen the fastening screws securing the probes to the PCB. b. Extend the probes to the required length. c. Gently bend the probes to achieve the necessary detection position.

Detection Height Adjustment (Horizontal Orientation)

When installed horizontally, detection height can be fine-tuned by manually bending the stainless steel probes:

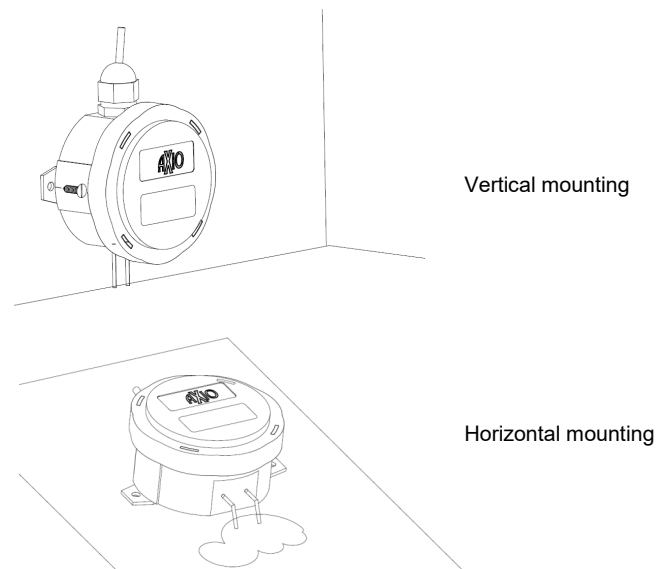
Hold the section of the probe nearest to the enclosure firmly with pliers.

Bend the free end to set the detection point appropriately.

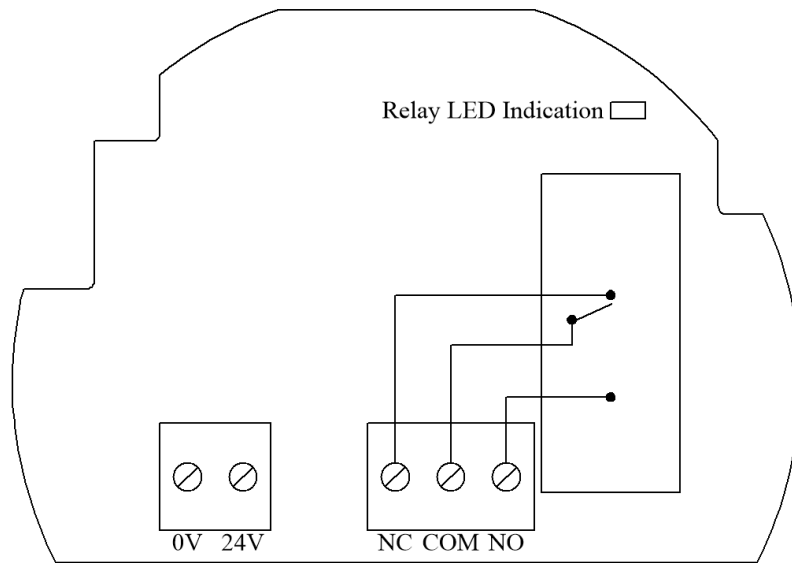
Securing the Unit

Preferably, affix the unit using screws through the enclosure's mounting tabs.

Where surface drilling is not possible, a high-strength waterproof adhesive tape may be used as an alternative fixing method. Ensure the adhesive provides a secure and stable hold.



Connections



Operation

When power is initially applied, the unit checks that the probes are clear of water. If no water is detected, the relay will energise. The relay will de-energise when water is detected across the two probes, and will remain latched off until power is removed. To reset the unit power should be removed and the sensor probes completely dried before reapplying power.

Testing

To test the installation put a wet cloth over the probes to simulate a water level, and check the relay and LED switch off. Reset the unit as above.

Datasheet Contents

Every effort has been taken in the production of this data sheet to ensure accuracy. Annicom do not accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Annicom has a policy of continuous improvement and reserves the right to change this specification without notice.