
Diagram 1 - Description

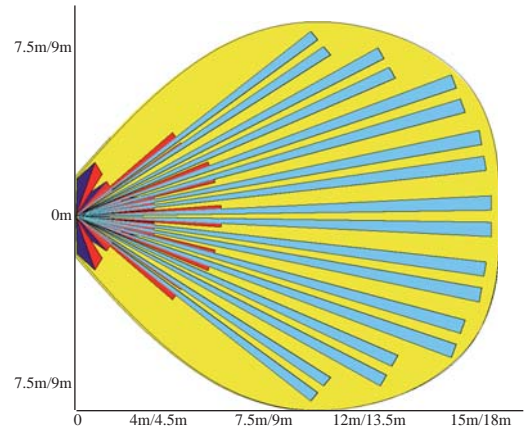
1. Coin slot
2. Off the wall tamper (using this mounting hole provides off the wall tamper)
3. Detector mounting holes
4. Cable entry knock-outs
5. Mirror adjustment and fixing screw
6. Pyro Detector (Do not touch)
7. Microwave range control
8. Cover screw (Loosen only - do not remove)

Diagram 2 - Terminal block

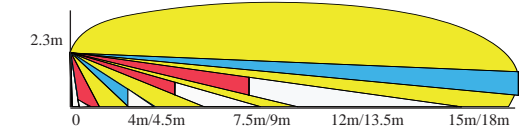
⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
10	9	8	7	6	5	4	3	2	1
NC Tamper	NC Aux	Ctrl	Test	NC Alarm					
									+ - 12 V

Diagram 3 - Coverage Patterns

Volumetric Plan View 15m / 18m



Volumetric Side View 15m / 18m


1. Technical Specification

Voltage:	12 V (9 V to 16 V dc)
Current:	Quiescent – 17 mA @ 12V Max – 22 mA @ 12V (All LED's ON)
Alarm, Aux & Tamper:	Normally closed (NC). Rated at 24 V dc, 50mA
Test Input:	Positive supply to enable LEDs and control Remote Self Test
Control Input:	Positive supply for system Set. Otherwise Unset
Microwave range:	50% to 100% of range via potentiometer

See datasheet for full information

Use in EN50131 Complaint Systems:

DTX 18 meets the requirements of TS50131-2-4:2004, Grade 3, Class II with SW4 and SW9 ON and SW3 OFF.

DTX 15 meets the requirements of TS50131-2-4:2004, Grade 2, Class II and is suitable for use on PD6662 Grade 3 systems with SW4 ON and SW3 OFF.

Coverage shown applies with unit mounted 2.3m high, SW2 OFF, microwave at max and mirror at factory set position. Changing these may affect approval compliance.

Declaration of Conformity :



Hereby Guardall Ltd, declares that DTX18/100 and DTX15/100 are approved for use in UK, Italy & Eire and that DTX18/2500, DTX15/2500, are approved for use in Portugal and all are in compliance with the essential requirements and other relevant provisions of EU Directive 1999/5/EC.

Intended use: Within a building as an intruder detection device.

Safety Information: The power feed must be fused at 5A or less.

2. Installation Location

The recommended mounting height of the detector is 2.3m. Ensure the detector's field of view is not obscured. Please refer to Installation Guidance Notes available on our website or call the Technical Hotline for further information.

3. Walk testing

Select switch 1 to ON.

The yellow LED displays PIR activity. The PIR coverage is adjusted by loosening the two mirror locking screws, moving the mirror up or down, then re-tighten the locking screws. Position B=18m and C=12m.

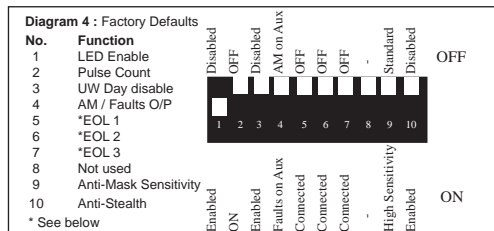
The green LED displays microwave activity. Range is adjusted via the microwave range control (7 in Diagram 1). The microwave should be set to the minimum necessary to give the required coverage. Note that coverage under the unit may also change.

The red LED displays unit alarms.

Walk test the area checking that alarms are indicated at the control panel.

Check tamper operation if wired.

4. Operating Feature Selection



SW1: LED enable - See LED indications section

SW2: Pulse Count

In harsh environments select switch 2 ON (pulse count).

SW3: Microwave Day Disable

OFF - the microwave will be permanently active.

ON - microwave is disabled when system Unset.

SW4: Anti-mask / Fault Output

SW4	Faults	Mask Signalled On
ON	Aux + LED (if enabled)	Alarm + Aux + LED (if enabled)
OFF	LED	Aux + LED

To reset a mask: Remove the mask, wait 30 secs, generate an alarm.

If switch 3 (UW day disable) is ON the Anti-mask is disabled.

SW5, SW6 & SW7: Enable built-in EOL resistors for Guardall panels

	SW5	SW6	SW7	EOL Connection
No EOL	OFF	OFF	OFF	Terminal 3 to 10
Alarm / Tamp	ON	ON	OFF	Terminal 3 to 10 (*1)
Alarm / Tamp / Aux	ON	ON	ON	Terminal 8 to 10 (*2) (*3)

(*1) To monitor Aux output on a separate zone fit external EOL resistors.

(*2) Only Px/Qx V3.2 or above, with Fault EOL option enabled.

(*3) Note: add a link between terminal 3 and 7

SW9: Anti-Mask Sensitivity

In harsh environments select switch 9 OFF.

SW10: Anti-Stealth

SW10 ON - Enhances detection for high security applications.

Please refer to Installation Guidance Notes available on website or call the Technical Hotline for further information.

5. Remote Self Test

With switch 4 ON, a self test is generated when the TEST Input is taken high to low. The alarm output will signal a successful remote self test. A failure will generate a fault condition. This is only reset by a successful remote self test.

6. Alarm Memory

* System Set
Should an alarm occur the alarm will be memorised.

* System Unset and SW1 OFF
TEST Input Low : the red LED will remain ON (if an alarm is memorised).

TEST Input High: the LEDs display normally without losing alarm memory.

Memory reset occurs the next time the system is set.

7. LED Mode Setting

System Set: None

System Unset:

With SW4 OFF, the following table applies.

With SW4 ON, SW1 OFF and TEST low, the following table applies except No **Faults** are displayed.

SW1	Test	Red		Green		Yellow	
		a	b	Fault	Other	Fault	Other
OFF	Low	√	-	√	-	√	-
ON	x	-	√	√	√	√	√
x	High	-	√	√	√	√	√

x = don't care

8. LED Indications

Red LED Indications:

a) Latched Alarm : ON constant.

Anti-Mask **Fault**: With latched alarm: Flicker...ON..Flicker..ON..etc.

No latched alarm:Flicker..OFF..Flicker..OFF..etc

Low Voltage : One Flash every second.

b) Low Voltage : One Flash every second.

Unit Alarm : ON for 3 secs.

Anti-Mask **Fault** : Flicker..OFF..Flicker..OFF..etc.

Green LED Indications:

Microwave Alarm : ON for 3 secs.

Microwave detection : One Flash.

Microwave Masked : 2.5 Flashes every second.

Microwave **Fault** : ON Dull (while Faulty).

Yellow LED Indications:

PIR Alarm : ON for 3 secs.

PIR Alarm event : One Flash.

(pulse count only)

PIR Masked : 2.5 Flashes every second.

PIR **Fault** : ON Dull while Faulty.

9. Warranty

All Guardall products are warranted against defects in workmanship in materials (details available on request). In the interests of improving quality and design, Guardall reserve the right to amend specifications without giving prior notice. Faulty product should be returned to your supplier.

Note: Guardall recommend that the detector is regularly walk tested back to the control panel and that installers advise their customers to do this.