

1 Pre installation



Installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.



The use of a non-metallic spacer should be considered if mounting the device on to a metal surface.



This device contains electronics that may be susceptible to damage from Electrostatic Discharge (ESD). Take appropriate precautions when handling electronic boards.

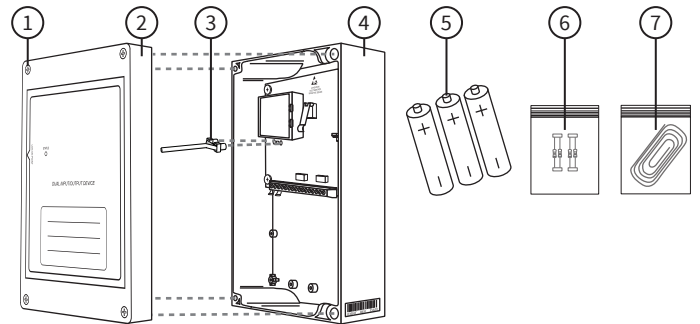


Two resistor monitored inputs are available. If both inputs enter an alarm condition, only the first activated input will be shown at the control panel.



To ensure correct operation, products must be used within the specified environmental operating conditions.

2 Components



- ① 4x lid screws ② Lid ③ Status light pipe (supplied in resistor pack) ④ Back box
⑤ Batteries (not included in some regions *) ⑥ Resistor pack ⑦ Gasket †

* When batteries are not included, only fit specified batteries.

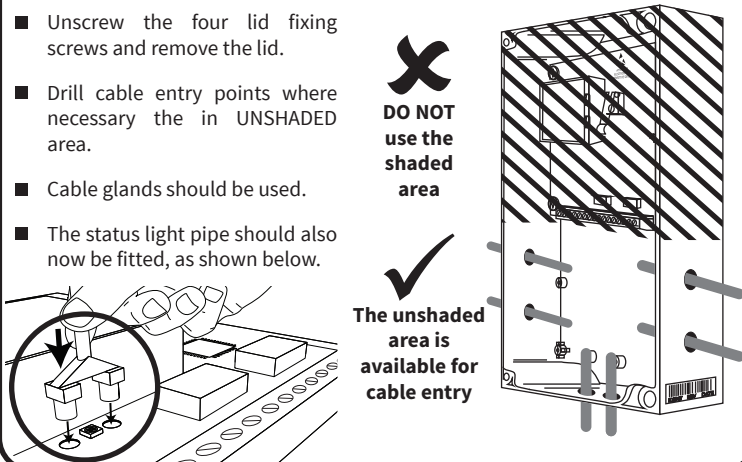
† The gasket can be fitted to the lid for additional protection.

3 Prepare the back box

- Unscrew the four lid fixing screws and remove the lid.
- Drill cable entry points where necessary in the UNSHADED area.
- Cable glands should be used.
- The status light pipe should also now be fitted, as shown below.

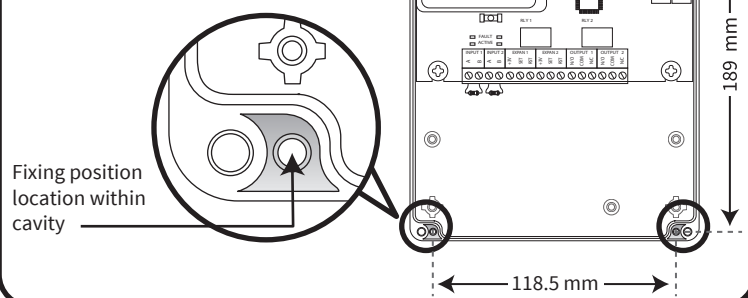
DO NOT
use the
shaded
area

**The unshaded
area is
available for
cable entry**



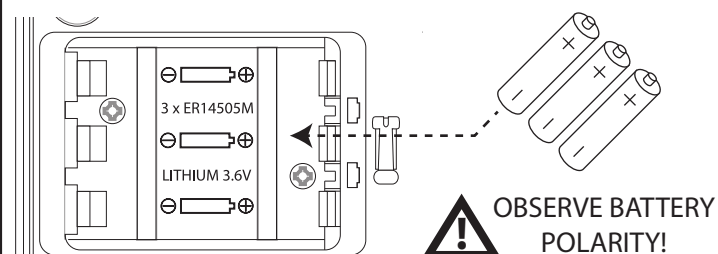
4 Fix back box

- All four corner fixing positions must be used to ensure a firm fixing
- Use suitable fasteners and fixings.



5 Fit batteries

- Carefully unclip the battery cover.
- When fitting / replacing batteries, observe correct polarity, using only specified batteries.
- Re-fit the battery cover once all batteries are correctly in place.



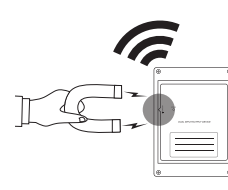
6 Configuration

The device must now be added (programmed) to the control panel.

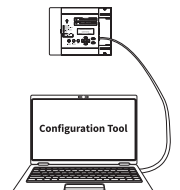
Method 1
Device powering



Method 2
Magnet application



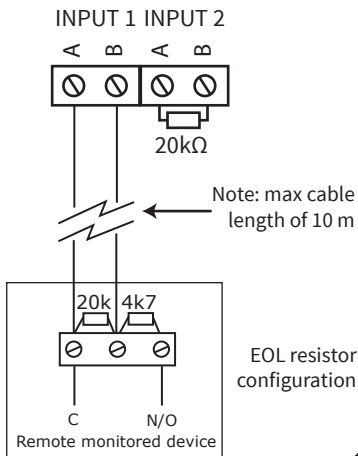
Method 3
Via computer



Refer to the programming manual (TSD155) for full programming details.

7 Input wiring

- Two resistor monitored inputs are available.
- Both inputs monitor; normal, alarm, open circuit and closed circuit conditions.
- Each input is factory fitted with an end of line 20 kΩ resistor.
- To connect inputs to external devices, wire as shown, using the resistors provided.
- Minimum input detection time is 2 seconds.
- If an input is not being used, leave the 20 kΩ resistor as factory fitted.



8 Output wiring

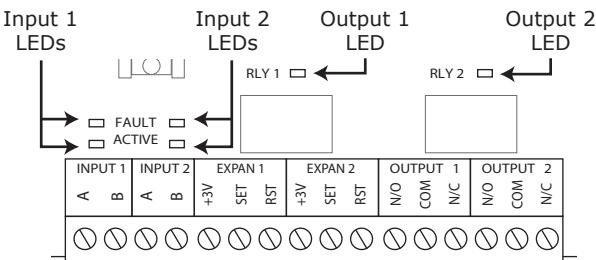
- Two outputs are available.
- Both outputs are voltage free, with a maximum switching capacity of 30 V at 1 A.

OUTPUT 1			OUTPUT 2		
N/O	COM	N/C	N/O	COM	N/C
⊖	⊖	⊖	⊖	⊖	⊖

WARNING. DO NOT CONNECT TO MAINS.

This product contains relays which when subjected to severe mechanical shock may cause momentary transitions from the currently active state. The transitions will be less than 1 second and any equipment connected must not respond to such momentary changes of the relay. This product should be fixed to a stable and secure structure that is not subject to severe mechanical shock.

9 LED operation

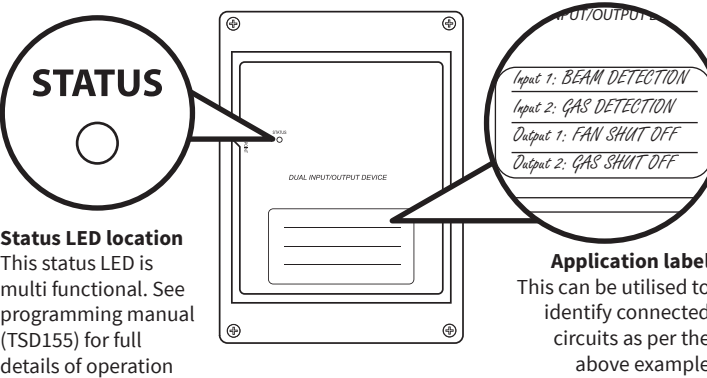


The device has six indication LEDs. They operate as follows:

- Input fault:** YELLOW LED ON
- Input active:** RED LED ON
- Output active:** RED LED ON

10 Completing the installation


The front lid must now be re fitted to the device and all four fixing screws tightened to fully reassemble the unit.



Specification

Operating temperature	-10 to +55 °C
Storage temperature	
With batteries	-10 to +30 °C
Without batteries	-10 to +55 °C
Humidity	0 to 95% noncondensing
Location	Type A: for indoor use
Supply	3 x ER14505M 3.6 V lithium thionyl chloride batteries (Fanso or Titus)
CAUTION!	
■ This is a life safety product. Only use manufacturer approved battery types. Failure to do so may result in damage to the product.	
■ DO NOT mix batteries of different type or age.	
■ When replacing batteries; remove all old batteries before fitting replacements.	
Operating voltage	2.7 to 3.65 VDC ---
Operating frequency	868 MHz
Output transmitter power	14 dBm / 25 mW
Signalling protocol	X5
Dimensions (W x H x D)	150 x 200 x 55mm

Regulatory information

Manufacturer	EMS Ltd. Technology House, Herne Bay, Kent, CT6 8JZ. United Kingdom
Year of manufacture	See devices serial number label
Certification	CE 19
Certification body	0359
CPR certificate DoP	0359-CPR-00269
Approved to	EN54-13:2005. Fire detection and fire alarm systems. Part 13: compatibility assessment of system components. EN54-18:2005. Fire detection and fire alarm systems. Part 18: input/output devices. EN54-25:2008. Incorporating corrigenda september 2010 and march 2012. Fire detection and fire alarm systems. Part 25: components using radio links.
European Union directives	EMS declares that the radio equipment type SmartCell Dual Input / Output Device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.mysmartcell.co.uk
	2012/19/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see www.recyclethis.info Dispose of your batteries in an environmentally friendly manner according to your local regulations.