

The Mini Series Dry Contact Sensor includes an enhanced secure mode. When secure mode is turned on all device communication is encrypted by AES128. For more information, ENOcean's full security specification can be found on <https://www.enocean.com>

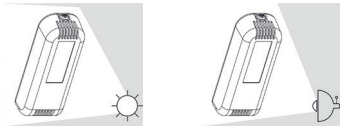
NOTE: Before changing the Mini Series Dry Contact Sensors operating mode please make sure the device is removed from all receiving devices it has been configured to work with. Failure to do so could result in ignored telegrams.

The Mini Series Dry Contact Sensor can be switched between standard mode and secure mode by pressing the learn button for at least 10 seconds. The devices mode will be changed when the learn button is released.

- Secure mode activation is indicated by the LED flashing twice.
- Standard mode activation is indicated by the LED flashing once.

The Mini Series Dry Contact Sensor is delivered in standard mode with encryption turned off.

Switching Between Modes



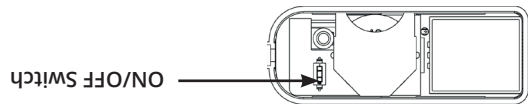
4. Secure Mode

Solar Powered Only

Prior to first use, The Mini Series Dry Contact Sensor requires its power reserve charging this can be achieved by placing the sensor in illuminance of at least 200lux for a minimum of 5 minutes.

TECHNICAL SPECIFICATIONS	
Wireless Protocol	EnOcean
Measurement Range	Reports Open/Close
Transmission Rate (Dynamic)	Instant on Open/Close Else every 15 minutes
Sense current	1 uA
Battery Life* (Battery Back-up only)	Up to 10 Years
Battery Type (Battery Back-up only)	CR2354
Repeater	No
Telegram	1BS
Environment	Indoor
Enclosure Material	PC-ABS
Calibration	Factory Calibrated
Operating Temperature Range	-20°C to +60°C
Storage Temperature Range	-20°C to +60°C
Dimensions	76.5mm x 28mm x 17.5mm approx
Maximum wire gauge	1.3mm
EEP	D5-00-01

*Typical life expectancy of the battery is dependent on ambient light conditions and use-case.



Mini Series Dry Contact Sensors equipped with a battery backup require turning on prior to first use. This can be achieved by opening the back cover and sliding the switch to the on position.

3. Product Activation

- Existing Door/Window Contacts
- Mechanical and tamper switches
- Contact plate
- Dry contact output
- Machinery status – in use/not in use

Typical Applications

- Reports open/close state of dry contact output
- EnOcean® security capable
- Transmits data wirelessly using the EnOcean® protocol

Functionality

- Energy harvesting – powered by ambient light from the surrounding environment
- Battery variation, for robust operation in dark environments
- Fast installation time – minimal disruption for retro fits
- Optimal positioning – no wiring constraints

Features and Benefits

The Pressac Sensing Mini Series Dry Contact Sensor is designed to detect and report change in any volt free dry contact output. The Dry Contact sensor offers fast, easy and reliable push-wire connection of two wires. The back-mounting plate can be affixed using adhesive film or screws.

2. Product Description



QUICKSTART-GUIDE

Mini Series Dry Contact Sensor

1. Introduction

It is recommended that you read this Quick Start Guide carefully before using the Mini Series Dry Contact Sensor.

This quick start guide contains relevant information for all variations of the Mini Series Dry Contact Sensor. Please check which variation you have prior to use.

Symbols

WARNING
Important information regarding risks.

NOTE
The section contains further information.

Health Risks

Use the device only for its intended purpose. The device is only suitable for indoor use. Avoid exposing the unit to moisture, dirt or dust. Avoid direct sunlight and other sources of heat.

Avoid placing the device in a metal case. Such placement will affect the ability to communicate with other devices. Do not open the device! In case of an error, please contact the manufacturer.

For more information please visit:
<http://www.pressac.com>

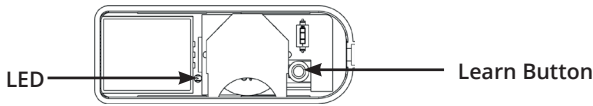
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5. Commissioning

Adding the EnOcean Mini Series Dry Contact Sensor to an EnOcean radio network.

i **NOTE:** If including a Mini Series Dry Contact Sensor in secure mode please ensure your receiving device is EnOcean security compatible.

1. Ensure your Mini Series Dry Contact Sensor is within range of your EnOcean gateway or receiving device.
2. Place your EnOcean gateway or receiving device into inclusion mode.
3. Press the Learn button on the back of the Mini Series Dry Contact Sensor and the LED will blink once. The device will now transmit a teach in telegram.



4. Wait for the teach in process to end. Please allow extra time if using secure mode.
5. Successful inclusion will be indicated on the EnOcean gateway or receiving device.

The Mini Series Dry Contact Sensor can also be included into your EnOcean network manually. This can be achieved using the unique EnOcean ID and the EnOcean Equipment Profile (EEP) of the Mini Series Dry Contact Sensor. The EnOcean ID and EEP are printed on the Mini Series Dry Contact Sensors product label.

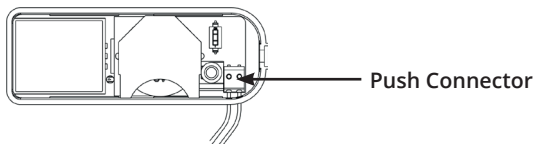
6. Physical Installation

! **WARNING**
Risk of electric shock when connecting the Mini Series Dry Contact to equipment incorrectly, with a pre-existing fault, absence of insulation or is not volt free. All work carried out on mains electricity must only be performed by a qualified electrician.

S. 4

Disconnection

1. Remove the screw from the side of the unit and lift the Mini Series Dry Contact from its backplate.
2. Push firmly on the top of the push connector with an appropriate tool and pull the connected wires out of the push connector.



! **WARNING**
When connecting the Mini Series Dry Contact to equipment which is not Class 3 certified and not supplied by a separated/safety extra low voltage power source. The contact output must have suitable insulation relative to the equipment supply lines.

8. Changing the Battery

Estimated battery life using default settings assuming average use can be found in the technical specification section of this document. Changing the battery in the Mini Series Dry Contact Sensor can be done by following the steps below.

1. Remove the screw from the side of the unit and lift the Mini Series Dry Contact Sensor from its backplate.
2. Unplug the connected daughter board by gently lifting upwards.
3. Replace the battery in the battery holder.
4. Plug the daughter board back into the main board.
5. Place the Mini Series Dry Contact Sensor onto the backplate.
6. Replace the screw into the side of the unit and securely tighten.



S. 6

Once you have identified your desired surface installation of the Mini Series Dry Contact can be done using the adhesive pads or screws provided.

Adhesive Pads Installation

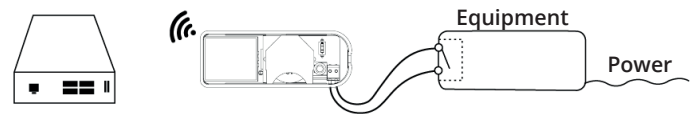
1. Ensure the surface is clean and dry. Use the included alcohol wipe to prepare the surface if required.
2. Stick the included self-adhesive pads to the bottom of the Mini Series Dry Contact.
3. Peel off the self-adhesive pads protection film.
4. Carefully stick the Mini Series Dry Contact to the desired surface.

Installation Using Screws

1. Remove the screw from the side of the unit and lift the Mini Series Dry Contact Sensor from its backplate.
2. Using the screws provided screw the Mini Series Dry Contact Sensor back plate to the desired surface.
3. Place the Mini Series Dry Contact Sensor onto the backplate.
4. Replace the screw into the side of the unit and securely tighten.

7. Connection

The Mini Series Dry Contact Sensor is designed to be attached to any equipment with a dry contact output. The dry contact output can be normally open or normally closed. An external wire with the maximum gauge of 1.3mm and length of 1 meter.



1. Remove the screw from the side of the unit and lift the Mini Series Dry Contact Sensor from its backplate.
2. Push the connection wires through the two holes in the enclosure and into the sensors easy push in connector.
3. Ensure a secure connection is made and replace the backplate.

i **NOTE:** Mini Series Dry Contact Sensors connected to a usually closed dry contact require a continuous detection of change. This will result in notably more power use.

S. 5

Declaration Of Conformity

Pressac Communications Limited (the original manufacturer) declares that the product branded



• Pressac Sensing Mini Dry Contact Sensor - 868MHz

satisfies the requirements of RED 2014/53/EU and has been independently tested and found compliant with the essential requirements of:

- BS EN 61326:2006 Electromagnetic Compatibility
- BS EN 60950-1:2006+A2:2013 Information technology equipment. Safety. General requirements

FCC Declaration

Pressac Communications Limited (the original manufacturer) declares that the product branded



• Pressac Sensing Mini Dry Contact Sensor - 902MHz

Contains FCC ID: SZV-STM333U

Contains IC: 5713A-STM333U

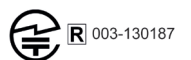
Contient le module d'émission IC: 5713A-STM333U

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i) this device may not cause harmful interference and (ii) this device must accept any interference received, including any interference that may cause undesired operation.

Japanese Radio Law

• Pressac Sensing Mini Dry Contact Sensor - 928MHz

The enclosed device complies with Japanese radio law and is certified according to ARIB STD-T108. Operation is subject to the following two conditions:



(i) this device may not cause harmful interference and (ii) this device must accept any interference received, including any interference that may cause undesired operation.

Where applicable the original Certificates of Compliance are held at Pressac's business address, with copies being available on request.

Robert Smith, Technical Director, Nottingham, March 2018.

S. 7