

INSTALLATION (INDOOR)

Remove supplied key, screws and centre plug from the back box. If using back box, ensure incoming wiring passes through it and fix to the mounting surface using suitable fasteners.

Wire for application – internals for each unit are shown below & example wirings are overleaf.

Insert larger end of key into the front locking pin and turn 90° anticlockwise to unlock the unit front. Lift the front up and away from the bottom. Use the supplied fixings and tool to fix the wired unit to the back box

INSTALLATION (W/PROOF)

Remove supplied key, screws and centre plug from packaging. Insert larger end of key into the front locking pin and turn 90° anticlockwise to unlock the unit front. Lift the front up and away from the bottom.

Separate the back box and unit front by removing the 4 fasteners in each corner using the tool provided. Ensure incoming wiring passes through the back box and fix to the mounting surface using suitable fasteners. Rear, top and bottom cable entries are supplied. Take care to not compromise the seals. Wire for application – internals for each unit are shown below & example wirings are overleaf.

For all units ensure the break plate sits on the internal peg and retaining arm, pushing the microswitch in. For reset plates, use the same method but allow for the internal peg to pass through the matching hole on the plate. Push upwards into the switch until the retaining arm springs upwards from behind the plate and engages with the plate edge.

Reassemble front cover (reverse of removal) and insert the centre plug to cover the locking pin.

RESET TEST

For resettable units, push the front plate inwards. This will release the microswitch actuator and activate the unit. Ensure the unit has electrically switched. Insert the key at the bottom of the unit and turn clockwise ~90° until the reset plate releases from the retaining arm and drops downwards. Turn the key anticlockwise to original position and push inwards until the retaining arm springs back up to lock the plate in place against the microswitch. Remove the key and ensure unit has switched back.

VARIANTS

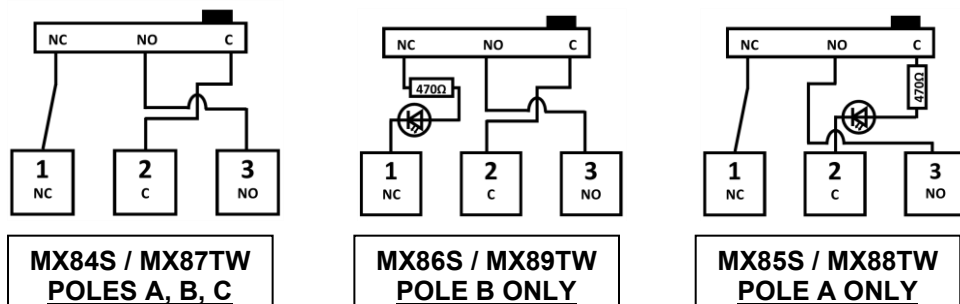
INDOOR UNITS					
ROOT PART	COLOUR	RESETTABLE / BREAK	COVER	APPLICATION / FEATURE	ELECTRICAL RATING
MX84S	G - GREEN B - BLUE Y - YELLOW W - WHITE R - RED*	S RESETTABLE	C FRONT COVER	STANDARD C/O SWITCH	250VAC / 3A MAX 50VDC / 5A MAX
MX85S		IF OMITTED BREAK PLATE	IF OMITTED NO COVER	WITH LED	13VDC / 5A MAX
MX86S		SUPPLIED RESETTABLE		WITH LED, FOR MAGLOCK	13VDC / 5A MAX

OUTDOOR W/PROOF UNITS					
ROOT PART	COLOUR	RESETTABLE / BREAK	COVER	APPLICATION / FEATURE	ELECTRICAL RATING
MX87TW	G - GREEN B - BLUE Y - YELLOW W - WHITE R - RED*	S RESETTABLE	C FRONT COVER	STANDARD C/O SWITCH	250VAC / 3A MAX 50VDC / 5A MAX
MX88TW		IF OMITTED BREAK PLATE	IF OMITTED NO COVER	WITH LED	13VDC MAX
MX89TW		SUPPLIED RESETTABLE		WITH LED, FOR MAGLOCK	13VDC / 5A MAX

*Red units are made specifically for fire applications, with a 470Ohm resistor, and instructed separately.

E.g. MX84SGSC = Green, Resettable, with cover

SPECIFIC INTERNAL WIRING

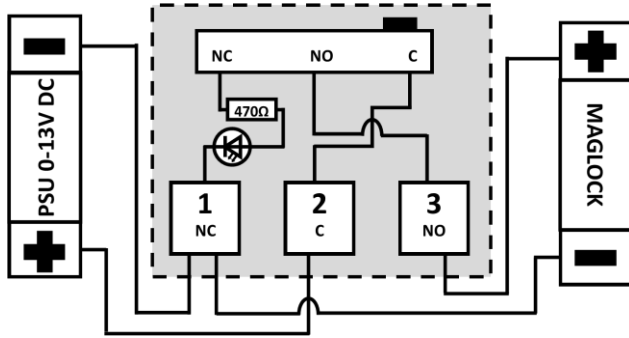


**ANY POLES NOT SPECIFIED
ARE STANDARD, DRY
CHANGEOVER WITHOUT
ADDITIONAL CIRCUITRY**

WIRING EXAMPLES

See below wiring examples of common use cases for these units:

MX86S / MX89TW WITH MAGLOCK – POLE B



Connect PSU and Maglock negatives to #1

Connect PSU positive to #2

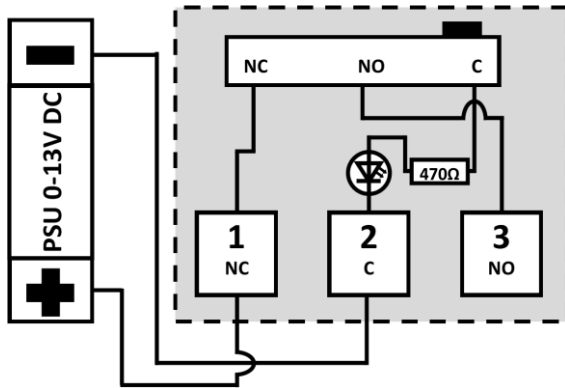
Connect Maglock positive to #3

When inactive, the unit will pass power to the maglock.

On activation, maglock will de-energise and the LED will light as an indicator that the unit has been triggered.

Resetting extinguishes the LED and re-energises the maglock.

WIRING EXAMPLE: MX85S / MX88TW – POLE A



Pole A in this unit is used only for switching the LED, as a monitor of the unit state.

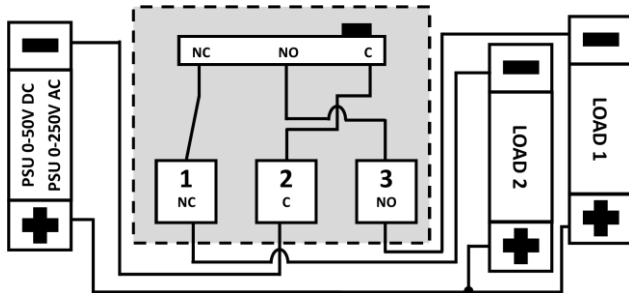
Connect PSU negative to #2

Connect PSU positive to #1

In this state, the LED is off when the unit is secure – only lighting when pressed. For opposite action (LED on when secure, off when pressed), wire PSU positive to #1 instead.

Wire any power demanding devices to poles B and/or C – the dry poles.

WIRING EXAMPLE: MX84S / MX87SW – POLES A, B, C



All poles are dry C/O switches without protection circuitry. Ensure your wiring will not short any power circuitry in either state!

Connect PSU positive and all load positives separately of the unit wiring.

Connect PSU negative to #2

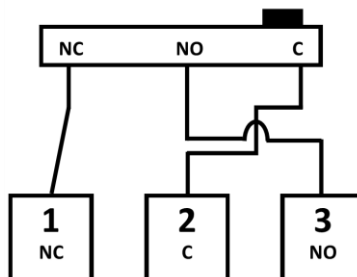
Connect load 1 negative to #3, and load 2 negative to #1

When inactive, load 1 is energised. Activating the unit will de-energise load 1 and power load 2.

May instead be used as a sensor without power input – In this case wire as per the application demands.

WIRING – OTHER POLES

Other poles are standard CO switches with no additional circuitry, and may be wired with or without power as the application demands:



Note for all products: When inactive, the C → NO circuit is closed and the C → NC circuit is open. Circuit states will flip on activation as the microswitch is released.