IP DOOR ENTRY

4G/IP/GSM

SMART VISITOR ENTRY PANEL

IPGUARD® & BATICONNECT®

INSTALLATION MANUAL

IPGUARD MINI

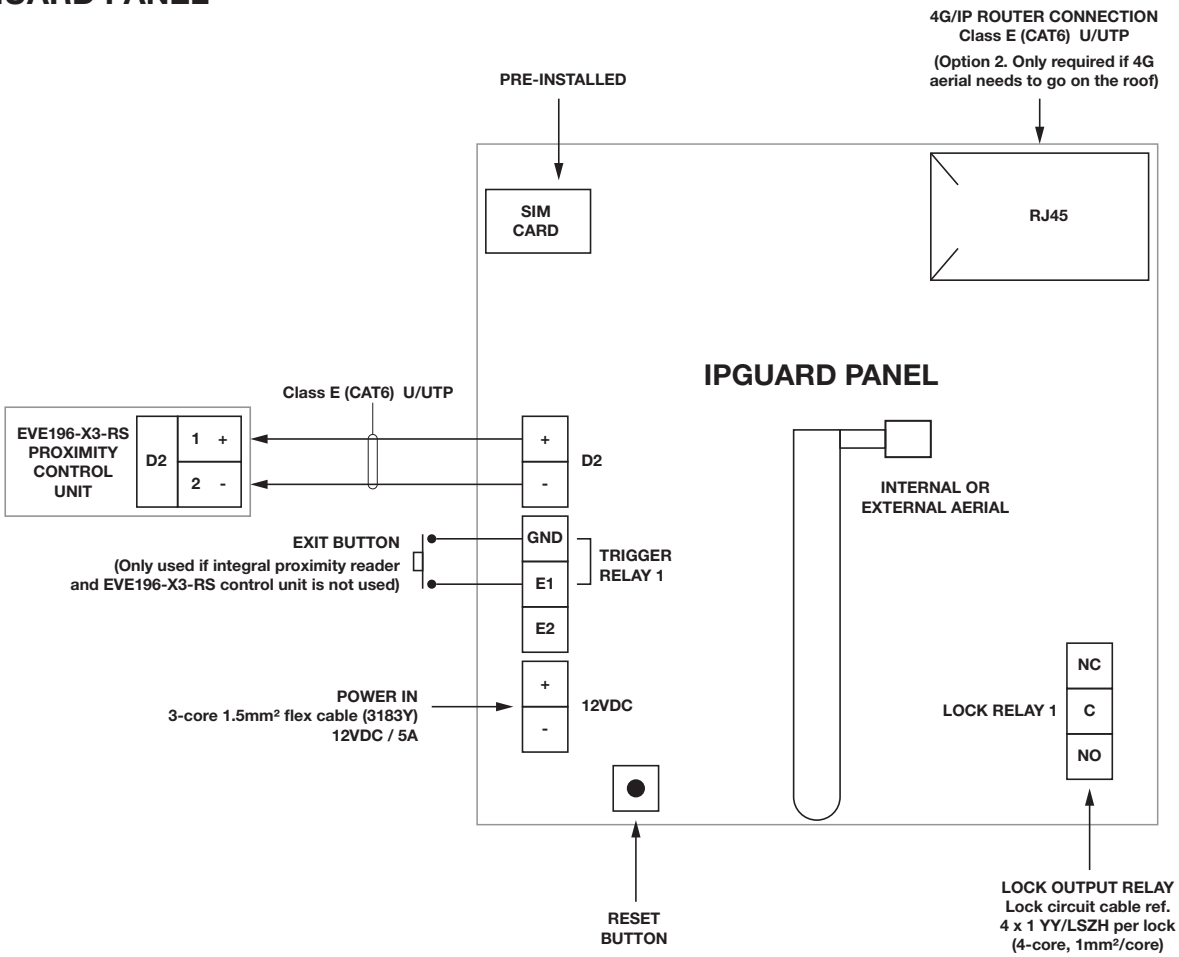
IPGUARD MINI PLUS

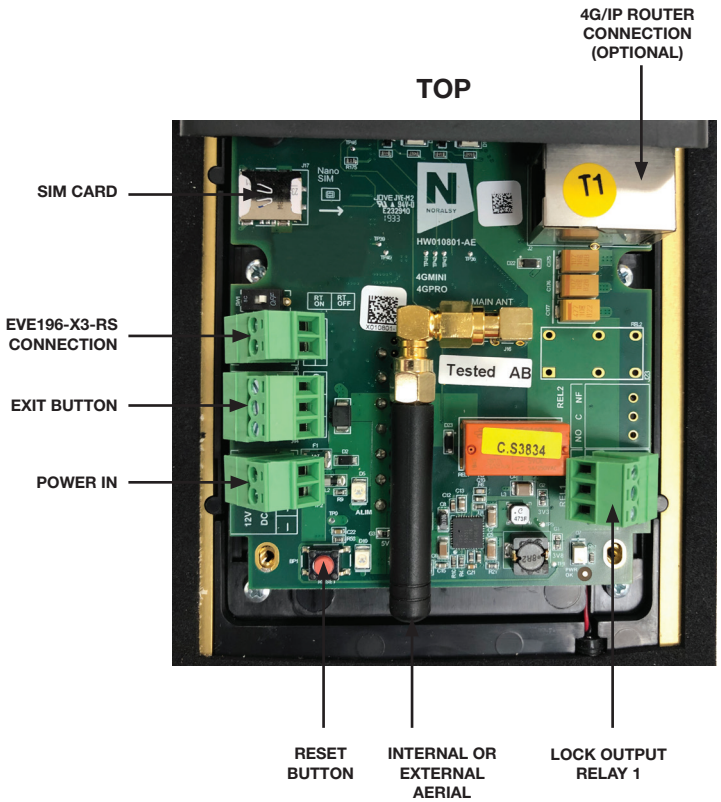
IPGUARD MINI TOUCH

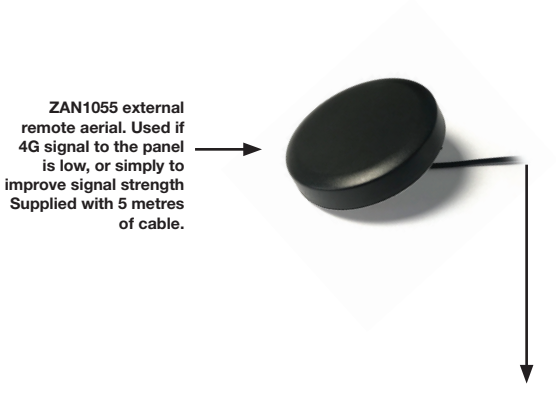
BATI CONNECT CLOUD

IPGUARD
4G/IP/GSM SMART
Visitor Door Entry

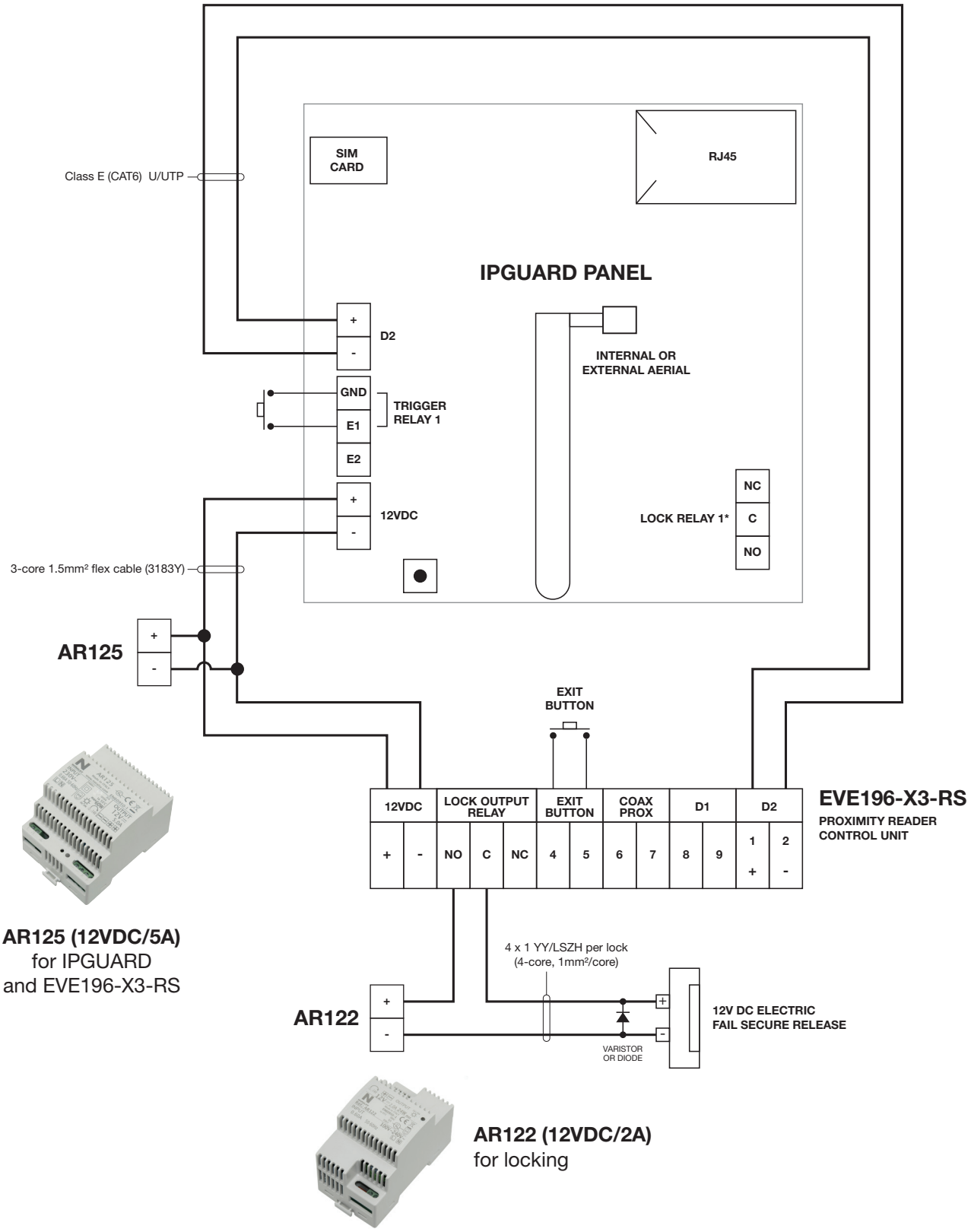
IPGUARD PANEL







IPGUARD PANEL WITH INTEGRAL PROXIMITY READER
FAIL SECURE LOCKING



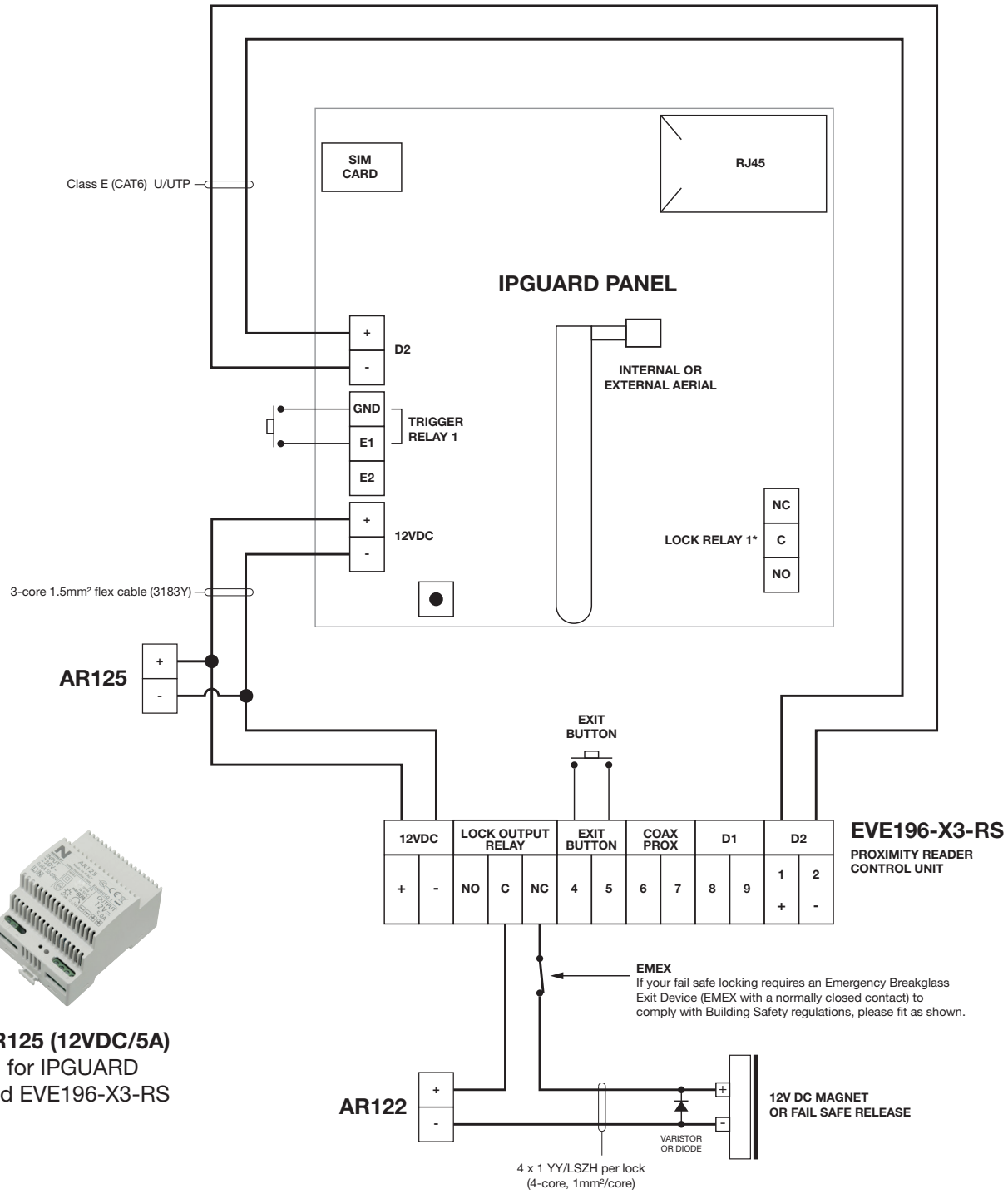
AR125 (12VDC/5A)
for IPGUARD
and EVE196-X3-RS

AR122 (12VDC/2A)
for locking

*The EVE196-X3-RS used for the IPGUARD needs to have the RS485 protocol 5.

*The lock relay output on the EVE196-X3-RS is normally used to control the lock.

IPGUARD PANEL WITH INTEGRAL PROXIMITY READER
FAIL SAFE LOCKING



AR125 (12VDC/5A)
for IPGUARD
and EVE196-X3-RS

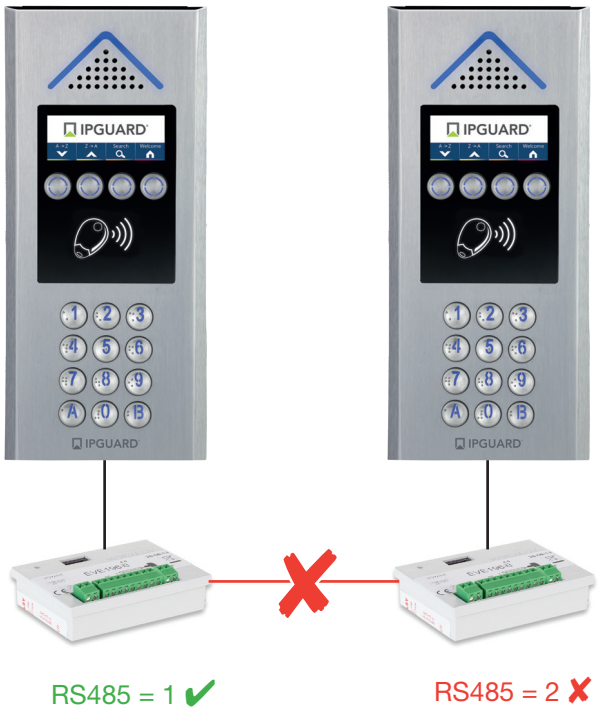
EVE196-X3-RS's connected to the IPGUARD need to be programmed as the first in the chain (i.e RS485 address =1).

Each IPGUARD & EVE196-X3-RS needs to be installed in their own bus chains/network (not wired together).

AR122 (12VDC/2A)
for locking

*The lock relay output on the EVE196-X3-RS is normally used to control the lock.

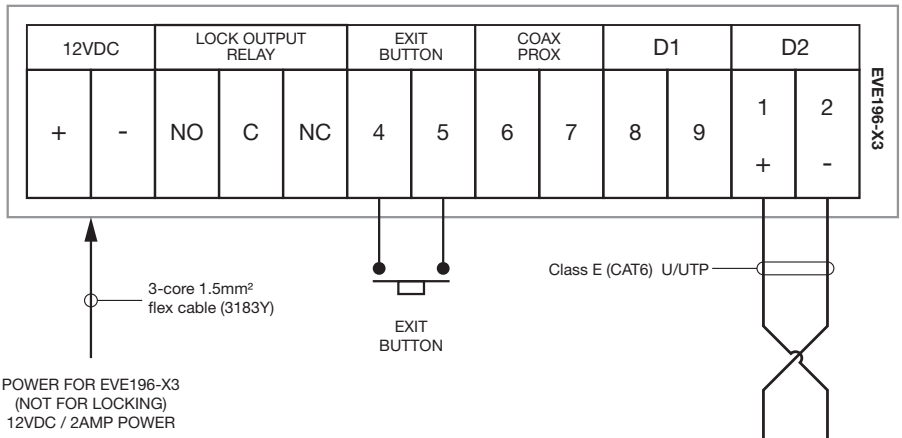
The EVE196-X3-RS's connected to the IPGUARD need to be programmed as the first in the chain (i.e RS485 address =1)



Each IPGUARD and EVE196-X3-RS needs to be installed in their own bus chain/network (not wired together).

The network/chains are programmed and linked together in the cloud via www.baticonnect.com

EVE196-X3-RS PROXIMITY READER CONTROL UNIT FOR PROXIMITY READER INTERNAL TO IPGUARD PANEL



EVE196-X3-RS
(Network address 01)

EXIT BUTTON

12VDC / 5AMP POWER

- +

BOTTOM

TOP

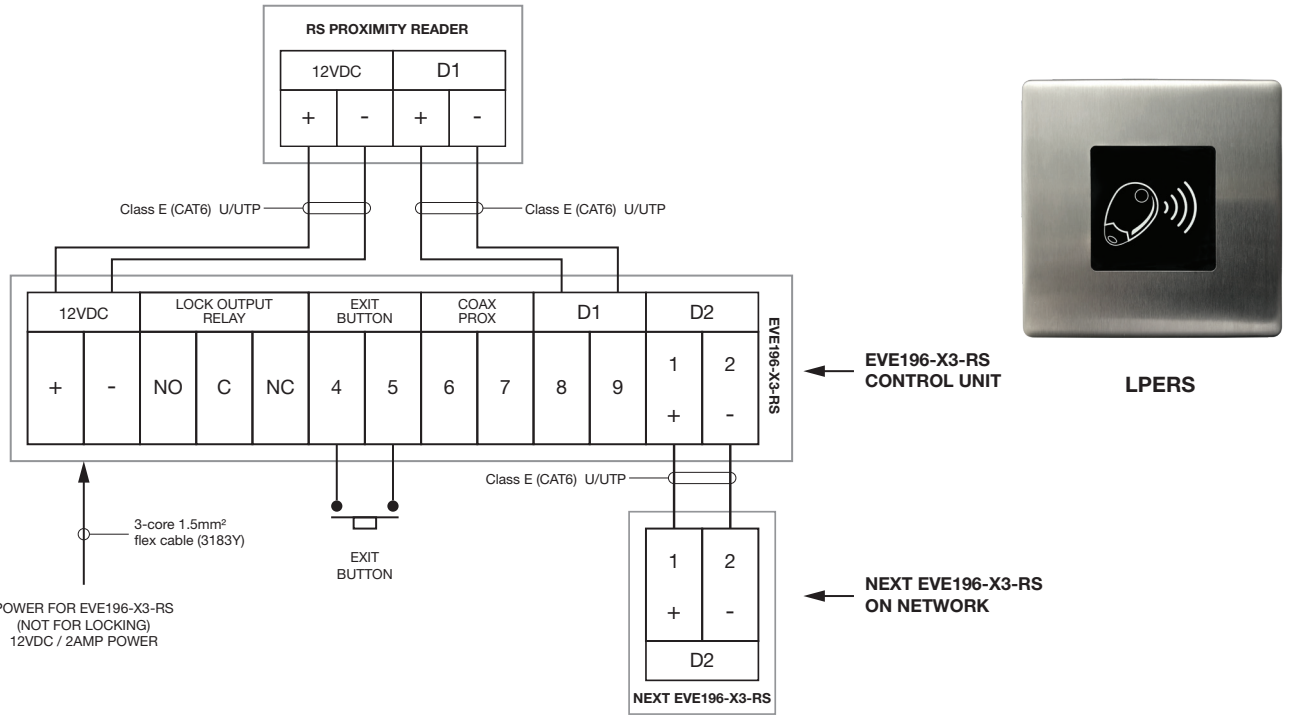
LOCK OUTPUT RELAY*

IPGUARD PANEL

*The lock relay output on the EVE196-X3-RS is normally used to control the lock.

EVE196-X3-RS PROXIMITY READER CONTROL UNIT WITH MLP8-RS PROXIMITY READER ANTI-VANDAL

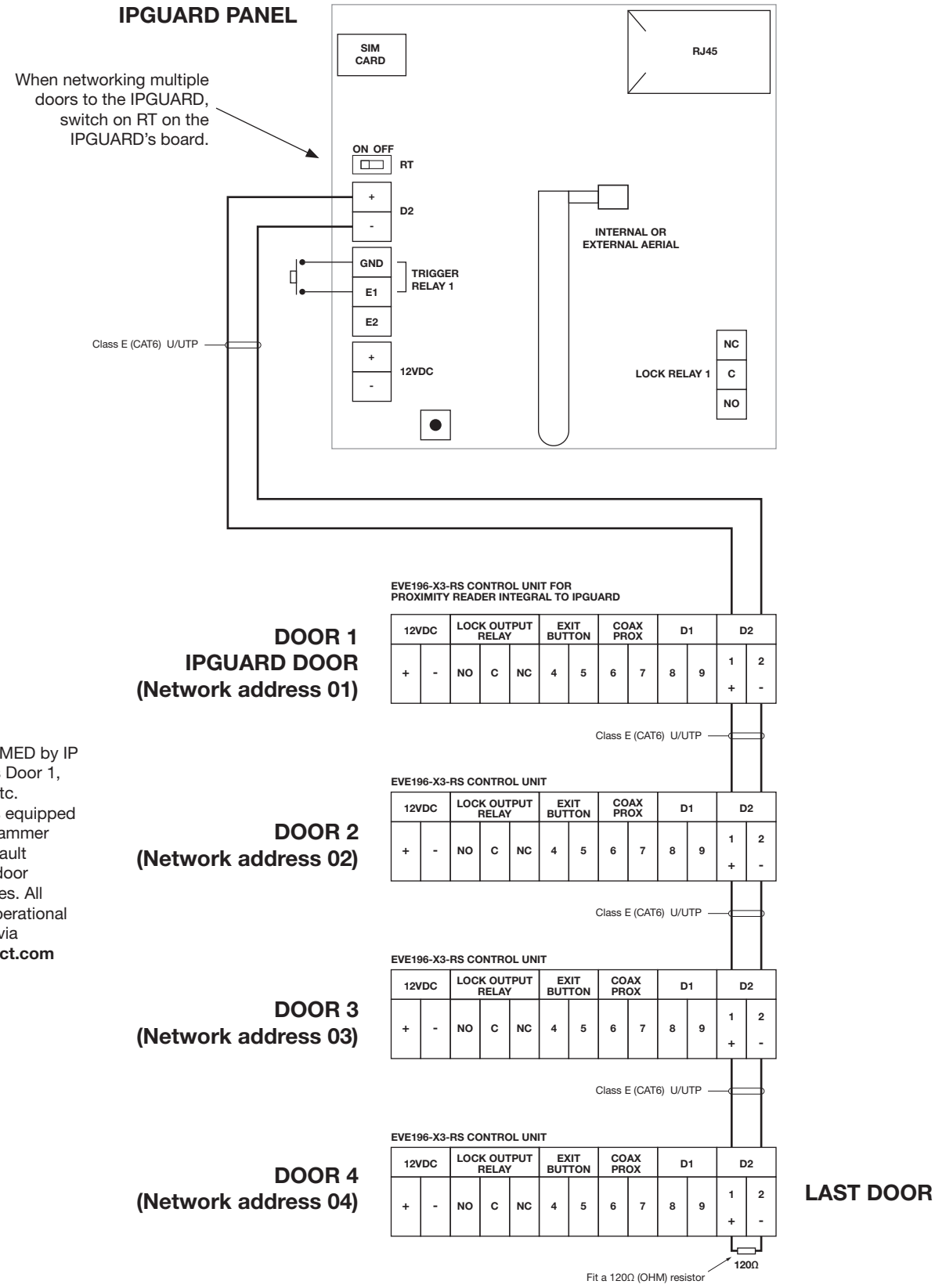
EXTRA PROX DOORS ONLY



All proximity readers are installed in the same manner (LPERS, LPMRS and LPTRS)

*The EVE196-X3-RS used for the PROXIMITY READER needs to have the RS485 protocol 3.

NETWORKING EXTRA DOORS ONTO IPGUARD PANEL

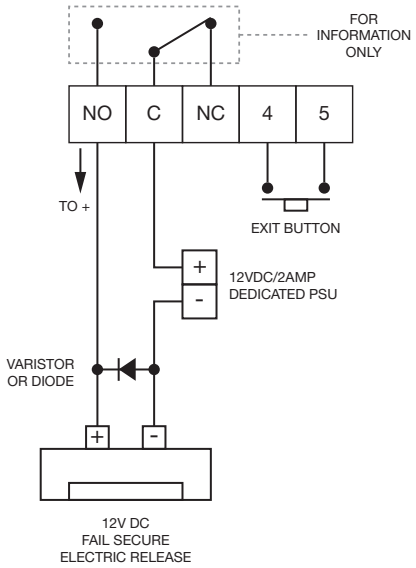


PRE-PROGRAMMED by IP Door Entry ltd as Door 1, Door 2, Door 7 etc. Trained installers equipped with TELU programmer can program default EVE196-X3-RS door setting themselves. All actual system operational programming is via **www.baticonnect.com**

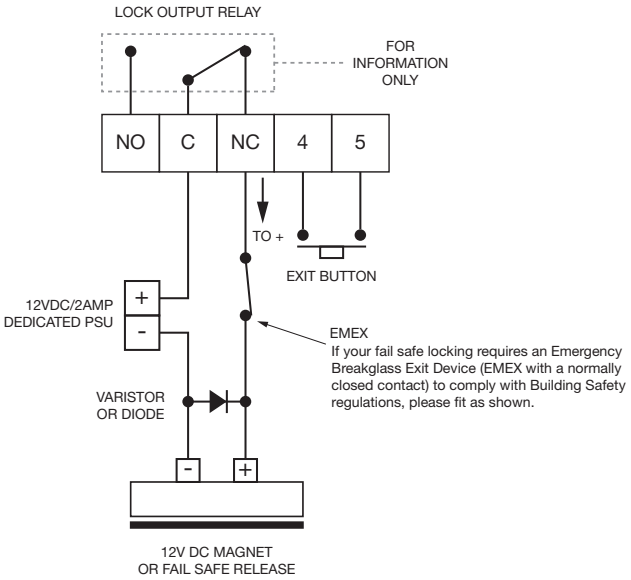
Maximum 10 doors per IPGUARD® panel. Additional doors can be added by creating additional networks in conjunction with our IGSM data modems.

At the end of the bus chain / network, YOU MUST add resistance either by switching on RT2 on the last EVE only or by adding a 120 (OHM) resistor, as shown above.

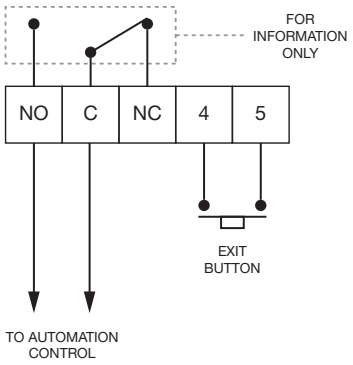
EVE196-X3-RS CONTROL UNIT FAIL SECURE LOCKING



EVE196-X3-RS CONTROL UNIT FAIL SAFE LOCKING



EVE196-X3-RS CONTROL UNIT AUTOMATION CONTROL / VOLT-FREE

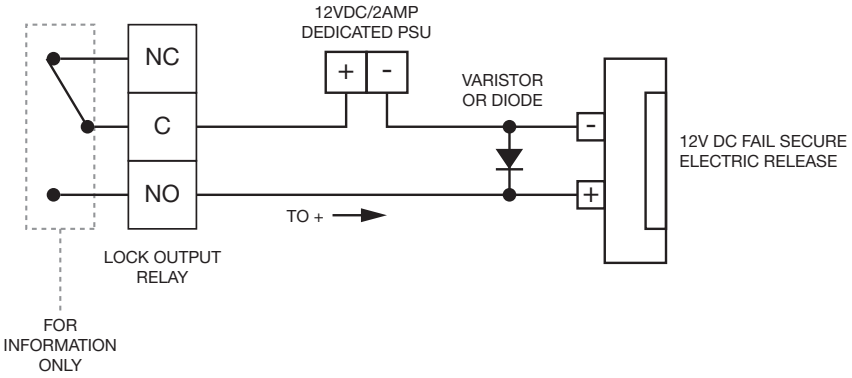


IMPORTANT!

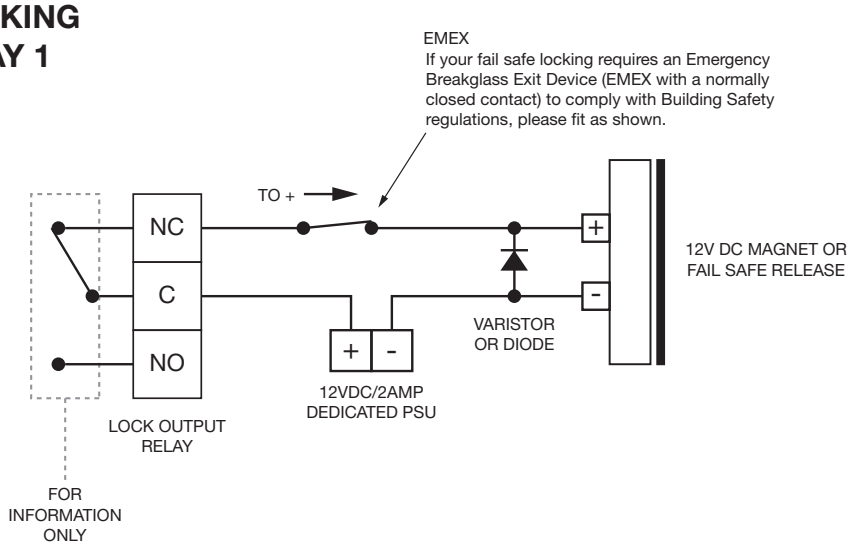
1. A diode or varistor must be fitted across the lock power terminals as clearly shown.
2. Use separate power supplies for (a) the electric locking (b) the IPGUARD panel.
3. The IPGUARD back box and/or any metal work connected to the IPGUARD must be earthed.

Failure to comply invalidates all warranties.

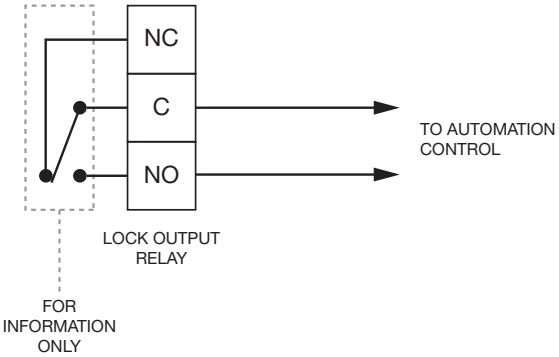
FAIL SECURE LOCKING
IPGUARD RELAY 1



FAIL SAFE LOCKING
IPGUARD RELAY 1



AUTOMATION CONTROL / VOLT-FREE
IPGUARD RELAY 1

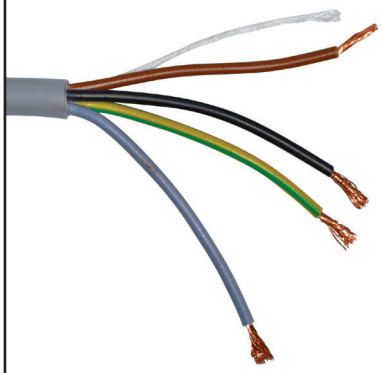


LOCKING CIRCUIT CABLE 4 x 1 YY/LSZH (3184B LSZH)

Q13026

Maximum distance from locking to power supply location:
50 metres for 1 amp lock
30 metres for 2 amp lock

Fail safe locking relies on the locking receiving the correct voltage and current. Fail secure electro-mechanical locking always requires a 3rd core control cable. Only industry reference 4 x 1 YY/LSZH cabling (or Fire Protected equivalent, if applicable) is to be used. Alarm, data or communications cabling; for example; CAT5E, CW1308 is unacceptable.



Conductors:	Flexible copper, class 5.
Core identification:	4 core: brown, grey, black, green/yellow
Insulation:	LSZH
Sheath/Jacket:	LSZH
Colour:	Grey
Voltage:	300/500V
Operating temperature:	-5°C / + 70°C
Minimum bending radius:	6 x overall diameter
Standards:	BS EN 50525-3-11, EN 61034-2, EN 60332-1-2.

CABLE REFERENCE:
4 x 1 YY/LSZH
PER LOCK

Core size sq.mm	No of cores	Radial thickness of insulation mm	Nominal overall diameter mm	Weight kg/km
1	4	0.6	7.9	99

T: 01322-441165 Product ref: 3184B-Grey Part number: 45574 www.batt.co.uk

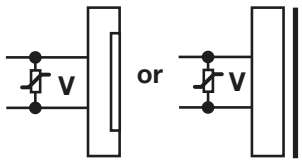
PROTECTION VARISTOR OR DIODE FOR LOCKING

The use of a varistor or diode protects electrical equipment from transient voltage spikes.

Varistor

Fit the varistor close to the AC or DC release or the DC magnet.

Varistor is polarity insensitive.

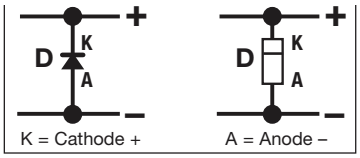


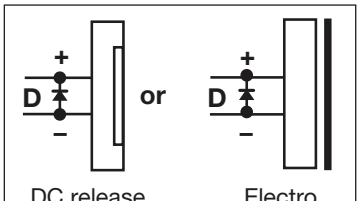
AC or DC release | Electro Magnet

Diode

Fit the diode ref. IN4001 close to the DC release or electro-magnet.

Respect polarity of the diode. Incorrect fitting of a diode will cause a short circuit.





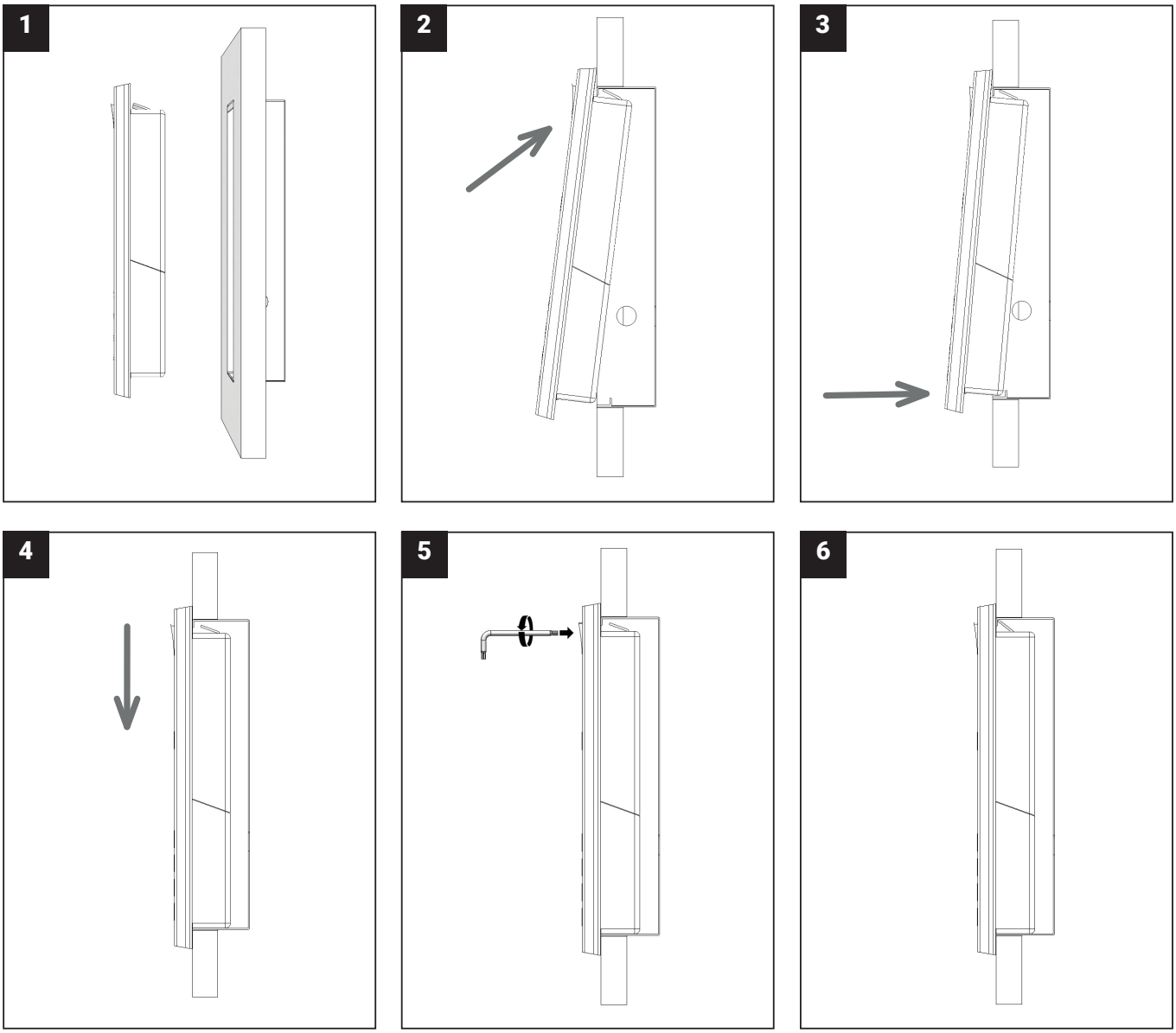
DC release Fail Secure or Fail Safe | Electro Magnet

CABLES CPR COMPLIANT TO CCA, S1B, D2, A2 OR BETTER

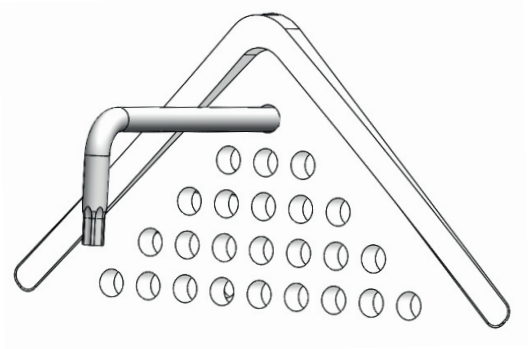
Refer to Construction Products Regulations (CPR)-BS6701 and ISO/IEC 11801-6: 2017 Part 6: Distributed Building Services (or BS EN 50173-6:2018 Part 6: Distributed Building Services).

1. Only use CPR compliant cabling.
2. Never use BT cable ref. CW1308 for digital video/audio systems.
3. Make sure duct or external grade cable equivalents are used whenever applicable.
4. Any and all system/equipment guarantees relating to correct functionality and reliability only apply if 1st fix cabling, cables used, and mains power requirements are provided strictly in accordance with the installation instructions supplied.

IPGUARD MINI: FIXING INFORMATION



IPGUARD MINI: HIDDEN SECURITY SCREW FIXING

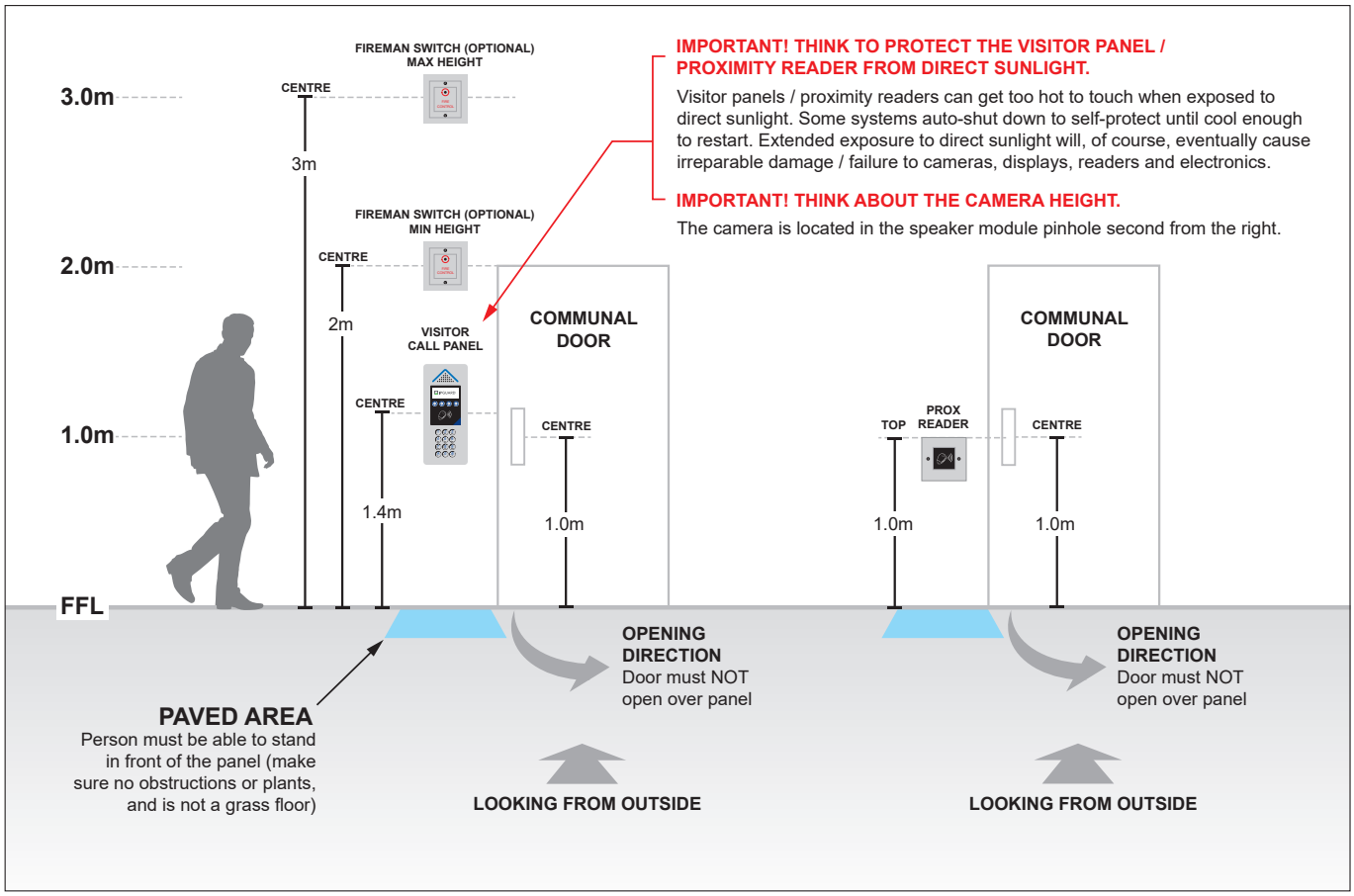


Always completely unscrew the system before positioning the panel.

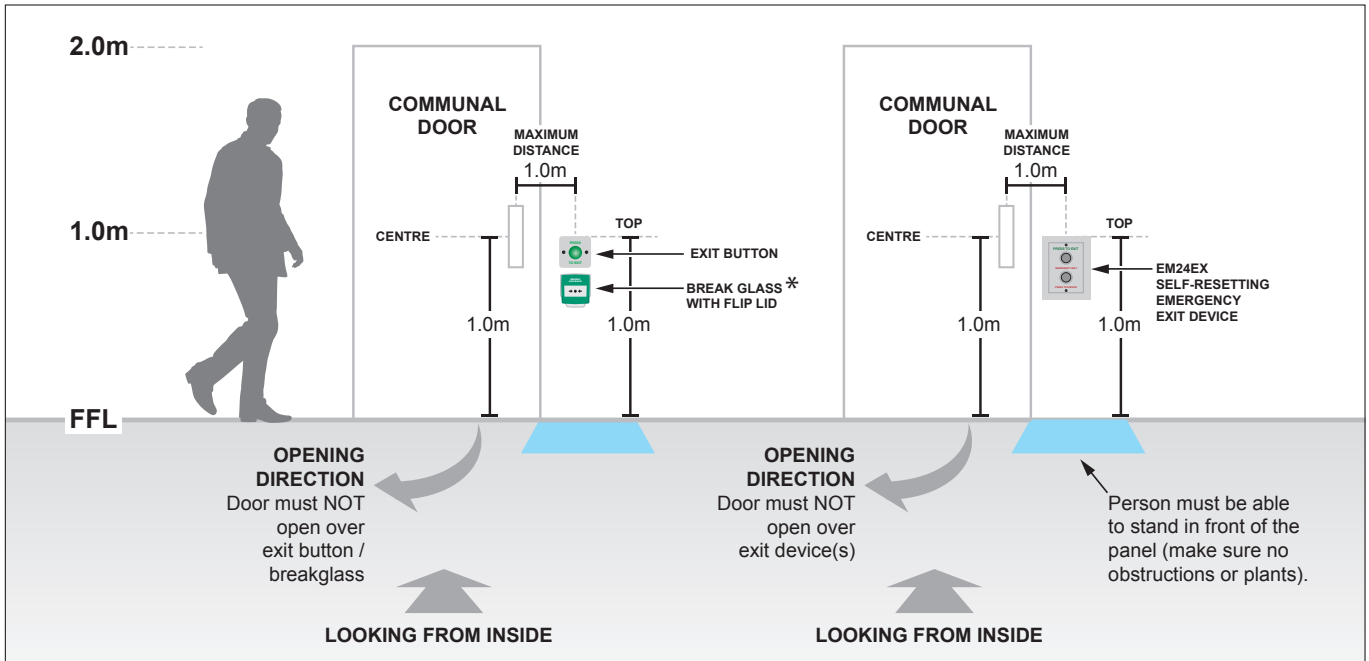
When you screw back do not over tighten.

Over tightening can damage the system and make it very difficult to reopen.

FIXING HEIGHTS: ENTERING



FIXING HEIGHTS: EXITING

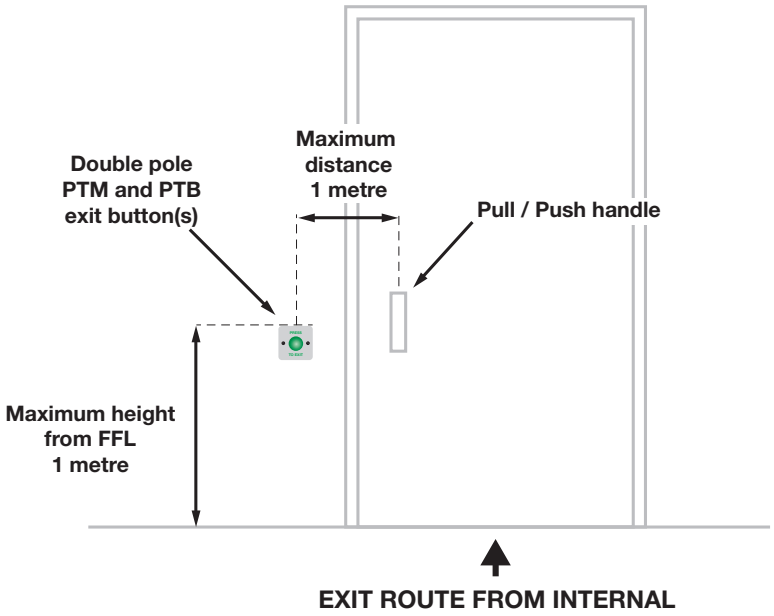


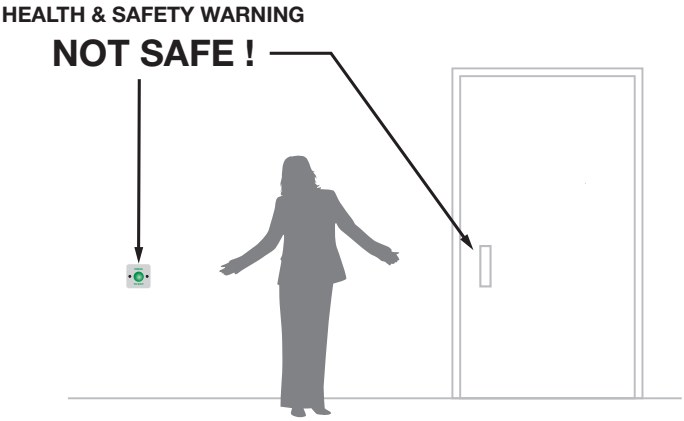
* **A NOTE ON BREAKGLASS POSITION:** Sometimes, for security reasons, the breakglass (BG) cannot be located close to the door. The 1.0 m max distance from door handle does NOT apply to the BG because when it is activated the fail safe locking stays unlocked until it is reset. The BG must, however, be located so that it is impossible to miss – which means easy to see and activate by all persons exiting in an emergency.

Please note: All IP Door Entry Ltd equipment is to be housed in secure metal cabinet(s)/protective enclosure(s), as appropriate, and clearly marked. External enclosures / cabinets (all disciplines): If no suitable weatherproof location(s) for system control/distribution equipment are available, site to provide and install externally rated steel lockable enclosures/cabinets (as per dimensions. Never install any system control / power equipment in false ceilings or in underground cavities. Failure to comply will revoke warranty period.

IMPORTANT SAFETY WARNING WHEN USING FAIL SAFE LOCKING

The mechanical Push to Break (PTB) safety features on the exit button(s) ONLY WORK if the door can be pulled / pushed open whilst holding the button pressed in.





If a person cannot reach the exit button AND the door handle at the same time, the safety PTB poles of the button are USELESS. The installation is unsafe and dangerous.

THINK SAFETY, THINK FIRE, THINK EMERGENCY EXIT. LIVES DEPEND ON A CORRECT INSTALLATION.

ALWAYS CHECK THAT WHEN A BUTTON IS PUSHED
AND HELD DOWN THE DOOR STAYS UNLOCKED AND DOES NOT RE-LOCK.
ALL INSTALLATIONS MUST COMPLY WITH BUILDING CONTROL REGULATIONS.

CORRECT POSITIONING OF EXIT BUTTON(S) IS VITAL

The PTB (Push to Break) contacts on the button break the lock power circuit but only when the button is pressed in.

The instant the button is released, the lock is immediately re-powered and the door immediately locks.

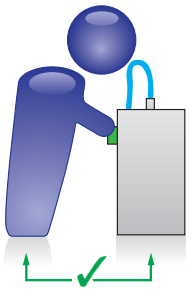
If the person cannot both press the button in and push or pull the door open at the same time, the installation is dangerous.

WARNING: Must be fitted within 1 metre maximum distance of the door exit pull/push handle at a maximum height of 1 metre from FFL.

Position carefully so that door does not open OVER the exit button(s).

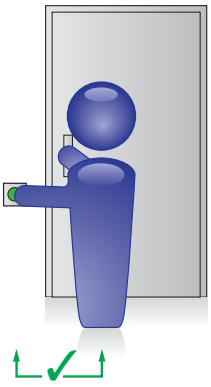
1 CORRECT

WATER FOUNTAIN



(a) Water flows only when button depressed.

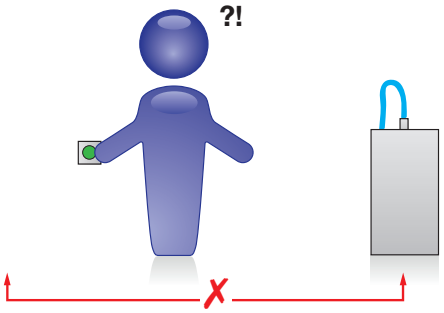
PRESS TO EXIT BUTTON



(b) Door unlocks only when button is depressed.

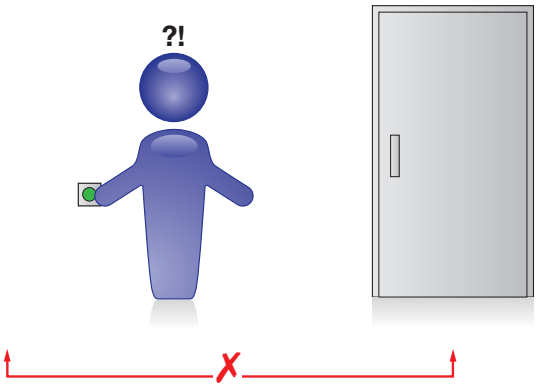
2 FAULTY & DANGEROUS!

WATER FOUNTAIN



(c) Button is too far from the water fountain. The flow stops immediately button is released, person cannot drink.

PRESS TO EXIT BUTTON



(d) Button is too far from door. The door relocks immediately button is released, person cannot escape.

WARNING! A PTM/PTB* DOUBLE POLE EXIT BUTTON ONLY IS NOT AN ACCEPTABLE REPLACEMENT FOR A GREEN BREAKGLASS.

Clause 2.17 of Part M (Access) of the Building Regulations, Section J: "the operation of switches, outlets and controls does not require the simultaneous use of both hands, except where this mode of operation is necessary for safety reasons."

You cannot have a system where the only emergency exiting procedure requires that the person needs to hold in a button, and at the same time pull/push the door because some people (elderly, physically impaired, children etc) will not be capable of doing this.

Also, if the distance from the exit buttons to the door makes this physically impossible (too far apart) to press in the button and push/pull the door simultaneously, the installation is obviously flawed and unsafe for everyone.

The emergency exit button MUST when pressed in the normal way ie pressed and immediately released also latch the door unlocked for a period of minimum 3 minutes. Each time the emergency exit button is pressed and immediately released it must "hold the door unlocked" for a minimum period of 3 minutes.

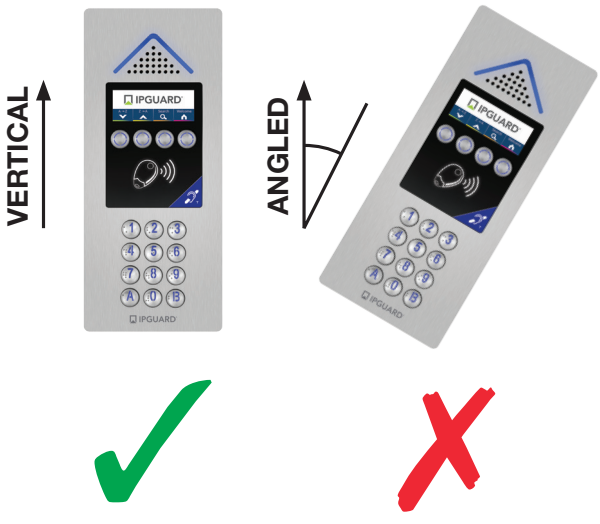
NOT ALLOWED

NOT SAFE AND NOT BUILDING REGULATIONS COMPLIANT

*PTM = Push to make momentary contacts = Convenience feature only.

PTB = Push to break momentary contacts = Safety feature.

FIT VERTICALLY



VISITOR PANELS / PROXIMITY READERS / EXIT DEVICES ARE DESIGNED TO BE FITTED VERTICALLY IE. UPRIGHT NOT AT AN ANGLE!

ALL RESPONSIBILITY IS EXCLUDED FOR DAMAGE TO PANEL ELECTRONICS CAUSED BY CONDENSATION WITHIN 3RD PARTY POSTS. ALSO, IF PANEL AGAINST ADVICE FITTED AT AN ANGLE, IT MUST BE UNDER COVER SO PROTECTED FROM DIRECT RAIN / SNOW / SUN.

COMMISSIONING 1

FOLLOW THESE SIMPLE STEPS

1 – POWER UP THE IPGUARD® AND FIX IN TO THE BACKBOX.

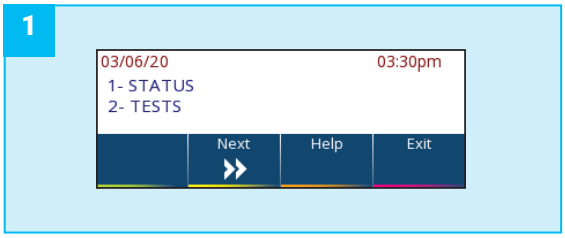
NOW ENTER ONTO THE PANEL KEYPAD

6 6 7 2 5 7 9

2 – CHECK THAT YOUR PANEL IS CONNECTED TO THE NETWORK

In the Welcome screen, enter STATUS by pressing on the 1 then go to the 2nd screen by pressing ».

If the screen does not display "WAN : Connected", check the SIM card, the connection of the internal antenna, or the connection of remote aerial/router (as applicable)..

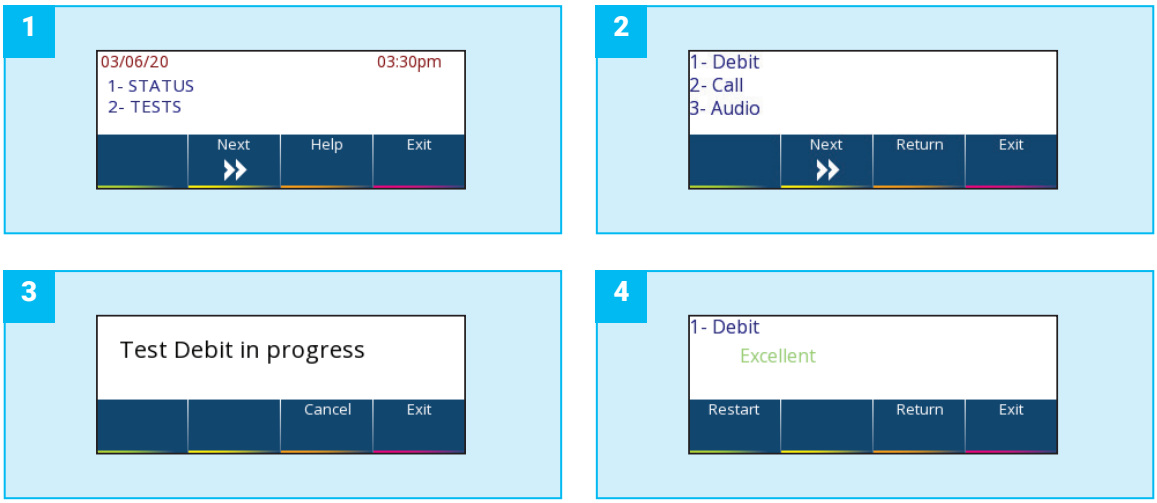


3 – TEST SIGNAL

In the Welcome screen, enter TEST by pressing on the 2 then press the 1 .

The panel now runs a signal strength check and responds: Bad, Average, Good or Excellent..

Note: If you receive an error message, start again after a few minutes.

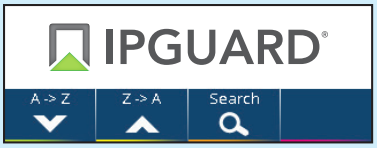


COMMISSIONING 2

CONFIGURATION	TEST RESULT	ACTION REQUIRED
Modem with internal antenna	Average / Good / Excellent	Signal suffices. Obviously the stronger the signal the better the speed and quality of the video.
	Bad	Install a remote aerial to improve signal reception (avoid obstructions, higher the better etc).
Internal modem and remote antenna together	Average / Good / Excellent	Signal suffices. Obviously the stronger the signal the better the speed and quality of the video.
	Bad	Install a remote router, max distance from panel 80 metres.
Remote router	Average / Good / Excellent	Signal suffices. Obviously the stronger the signal the better the speed and quality of the video.
	Bad	Contact IP Door Entry technical department.

4 – REGISTER IPGUARD ON BATICONNECT.COM

Go to baticonnect.com and either create an account, or log-in if you already have an account.
Once your IPGUARD panel has been registered on BATICONNECT.COM, the red dot on top right of IPGUARD screen will disappear.

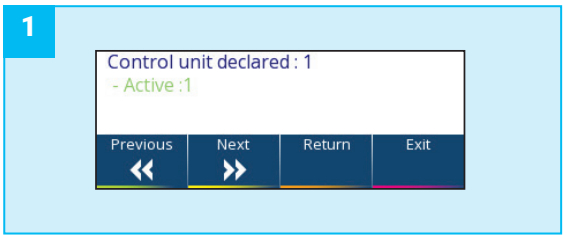


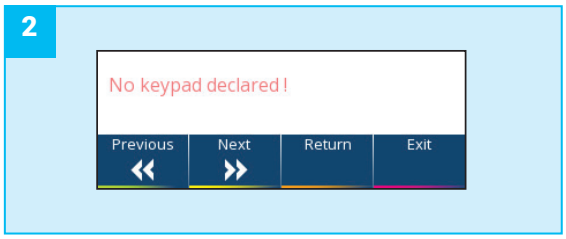
5 – CHECK STATUS OF SECONDARY DEVICES ON YOUR SITE

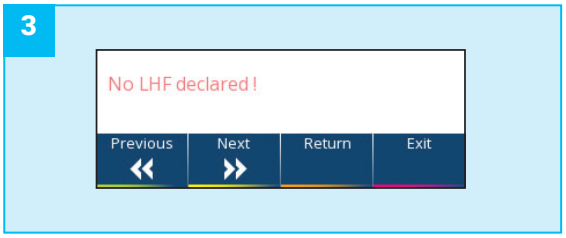
Once your secondary access points (devices) have been registered on BATICONNECT.COM, you can check the quality of each connection to your IPGUARD panel.

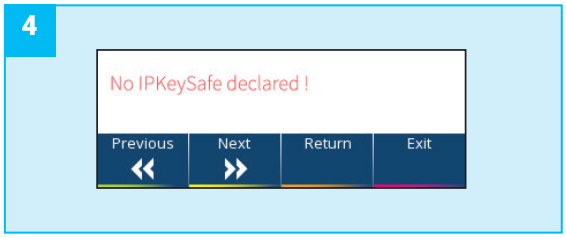
In the Welcome screen, enter STATUS by pressing on the 1 then go to the 3rd screen by pressing » twice.

To see other connected devices, press » once for Smart Keypads, press » twice for LHF radio receivers, press » three times for IPKEYSAFES.









Note: If the RS address of a device does not appear check the BATICONNECT configuration. If your devices appear but are NOT showing as activated, check cabling and the address selected directly on the device.

NOTES

NOTES

IP DOOR ENTRY

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