



IPerCom Hardware installation guide

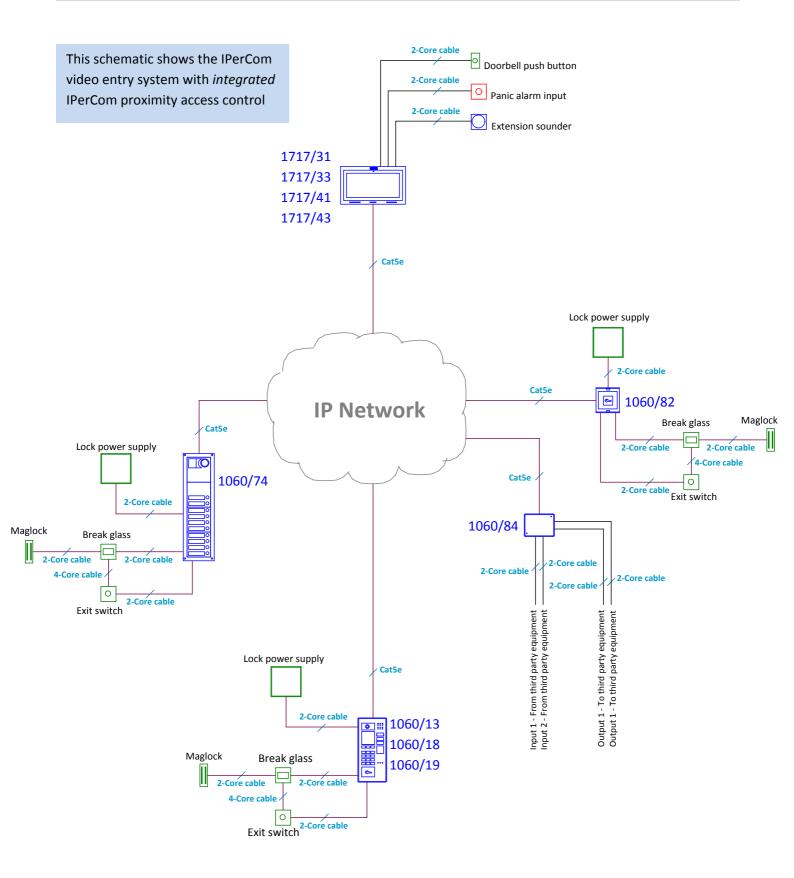
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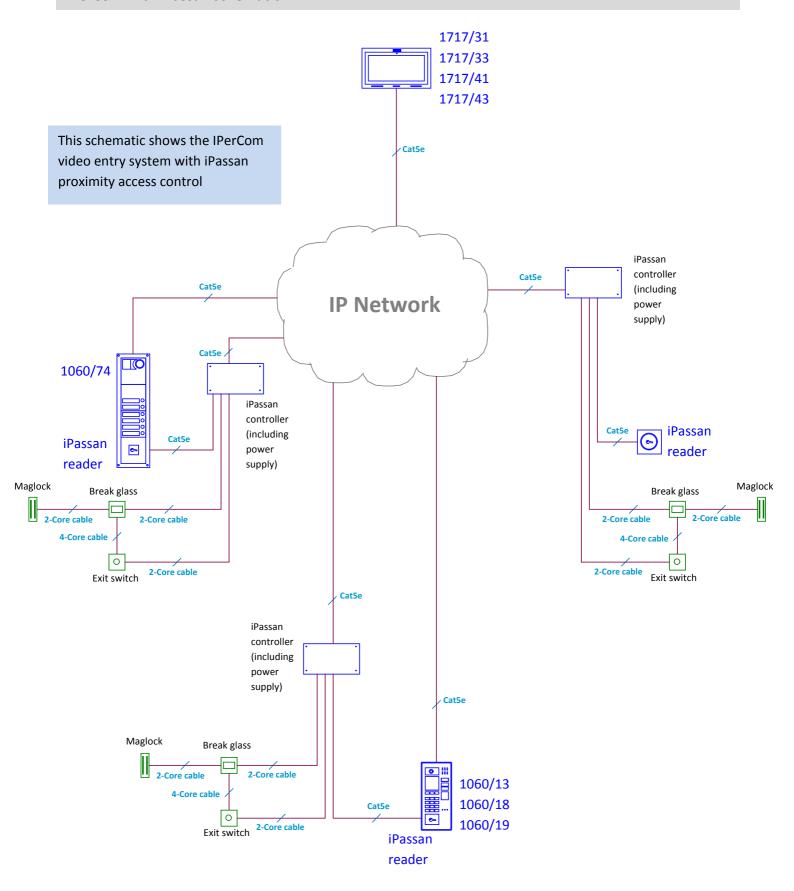
1060/74 Sinthesi Steel Entry Panel

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IPerCom schematic



IPerCom with iPassan schematic



Network installation and configuration requirements

The installation should be installed, tested and documented as per the following standards –

European Committee for Electrotechnical Standardisation (CENELEC)

EN 50173 Information Technology – Generic Cabling Systems

EN 50173-1:2011 General requirements
EN 50173-2:2007 + A1:2010 Office Premises
EN 50173-3:2007 + A1:2010 Industrial Premises
EN 50173-4:2007 + A1:2010 Residential Premises

EN 50173-5:2007 + A1:2010 Data Centers

EN50173-6: Distributed Building Services

CENELEC also produce the EN50174 series of standards that are concerned with the way in which cabling systems are designed and installed –

EN 50174-1:2009 + A2:2004 Specification and Quality Assurance

EN 50174-2:2009 + A2:2004 Installation planning & practices inside buildings
EN 50174-3:2013 Installation planning & practices outside buildings

Another relevant CENELEC standard is -

EN 50310:2010 Application of equipotential bonding and earthing in

buildings with information technology equipment

British Standards Institute (BSI)

BSI adopts all CENELEC standards and prefix them with their authority code, i.e. EN 50174-1:2009 + A2:2004 becomes BS EN 50174-1:2009 + A2:2004

BSI also produces its own national standards –

BS 6701:2010 Telecommunications equipment and telecomminications cabling.

Specification for installation, operation and maintenance.

BS 7671 Requirements for Electrical Installations. IET Wiring

Regulations (18th Edition).

BS6701:2010 states: All telecomminications cabling and telecomminications equipment shall meet the requirements of the BS EN 50174 series of standards. This relates to both owners of premises (Clause 4) and installers of telecomminications cabling and telecomminications equipment (Clause 5). Note that the use of the word 'shall' is presctiptive and as such, a legal requirement.

Urmet recommends adherence to the BS EN 50173 and BS 50174 series of standards, together with the relevent parts of BS 6701 and BS7671 to ensure a fully complient installation that conforms to UK legal requirements. It is the responsibility of the installer to ensure that their practices are in accordance with the latest published editions of the relevant standards.

Specific network requirements for IPerCom are as follows –

IGMPv2 or **IGMPv3 Multicast Service** must be enabled.

The following ports must be open and not restricted –

TCP ports 2049, 51234, 5060, 50118, 3306, 13451 to 3460, 111, 80, 433, 41365, 22,

918 & 40279.

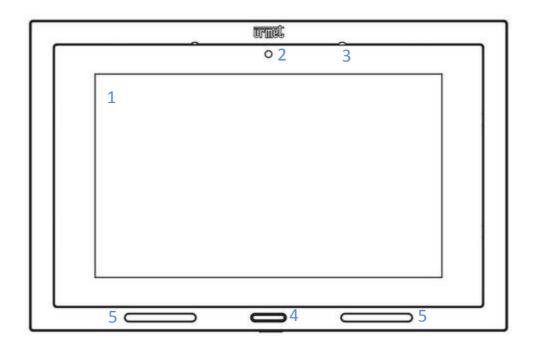
UDP ports 32768, 2049, 514, 32771, 34956, 917, 34839, 67, 5060, 69, 975, 111, 123.

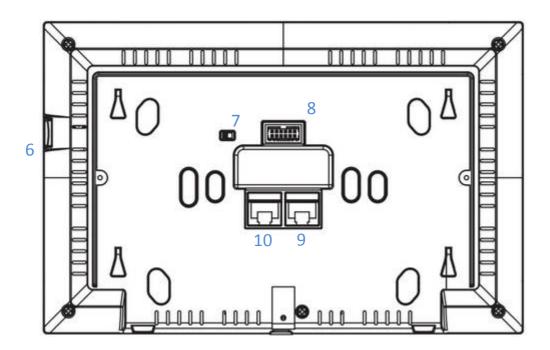
Multicast must be enabled on 238.0.0.200:55000 and on 239.255.0.200 (all ports).

TCP/UDP ports used for Internet access (if any) TCP:5060,6060 UDP:5060,6060.

Bandwidth per end point (Kbps) 2500 for upload and 10000 for download.

1717/31 or 1717/33 Max Pro Touchscreen Monitor

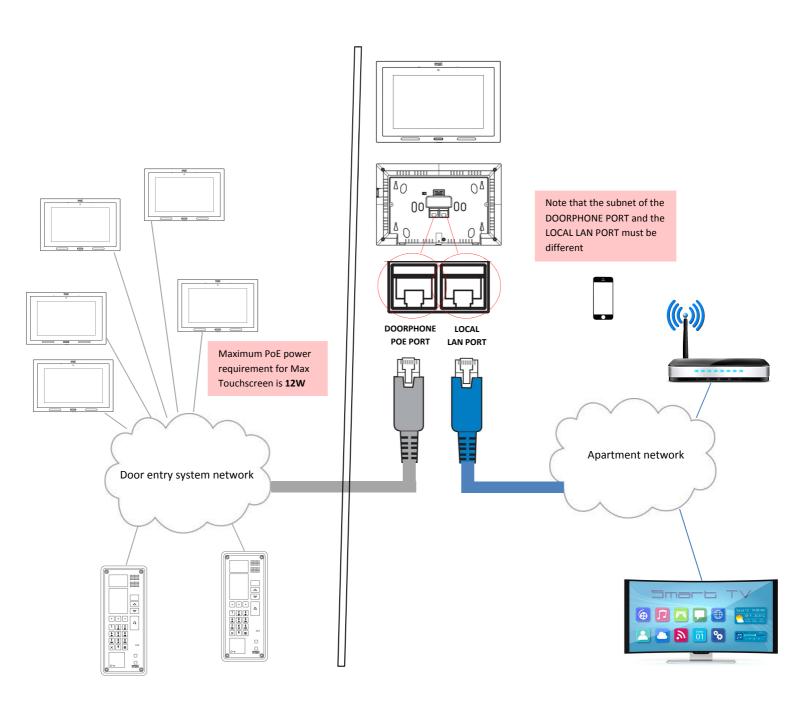




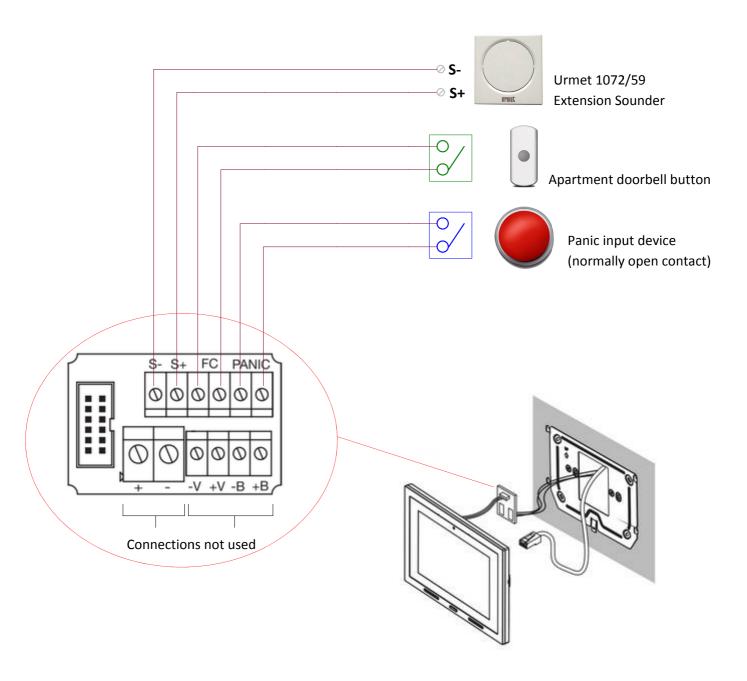
1	7" Touchscreen	6	Micro SD card slot
2	2MP webcam	7	Switch NOT USED
3	Microphone	8	12-Way connector for external connections
4	Blue backlit Home button	9	Secondary LAN connection for Home Area Network
5	Speakers	10	LAN connection to IPerCom network

1717/31 or 1717/33 Max Pro Touchscreen Monitor connections

The 1717/31 or 1717/33 Max Pro Touchscreen Monitor has two LAN connectors; one for connection to the IPerCom 'door entry network' and one for connection to the local apartment network (Home Area Network).

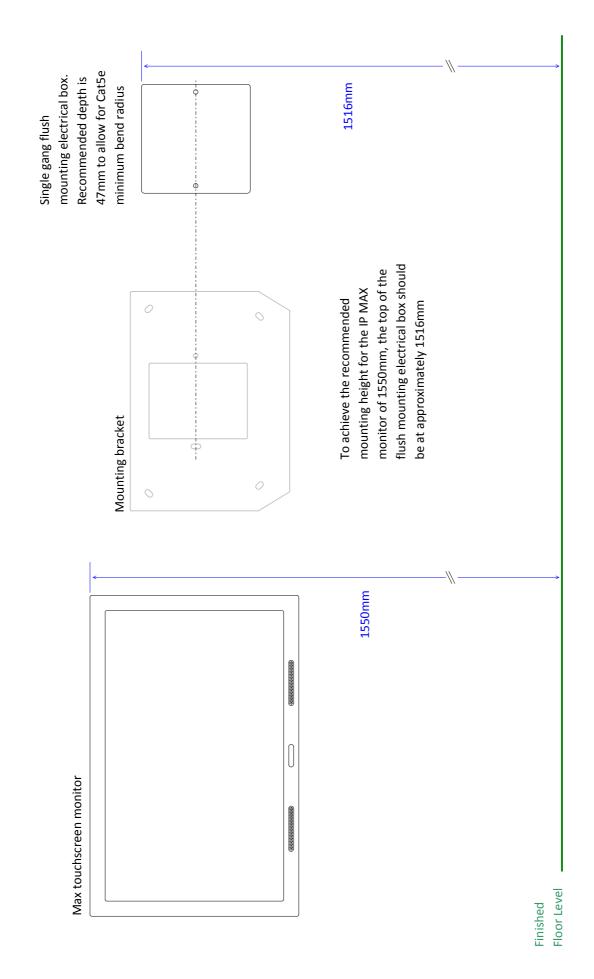


An additional terminal connector is supplied to allow a number of external connections to the Max touchscreen, namely panic alarm input (which sends an alert to the concierge switchboard), an apartment doorbell push button input and an output to the Urmet 1072/59 extension sounder –

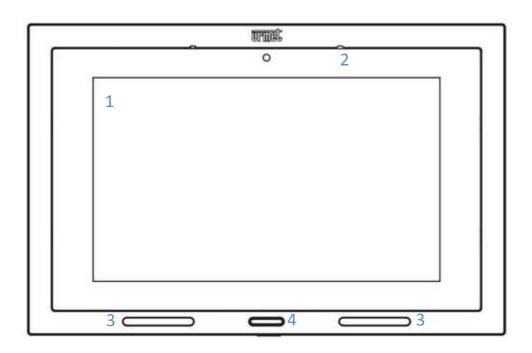


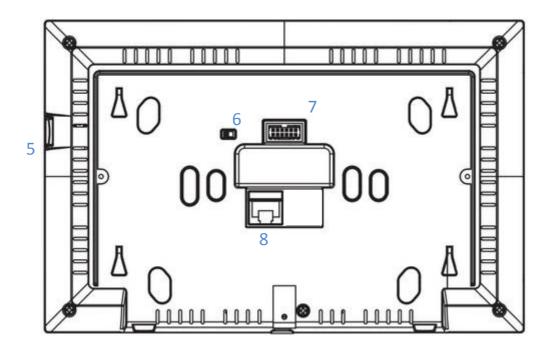
Type of connection	Maximum distance	Minimum cable cross section
Extension sounder	30M	0.5mm
Door bell	30M	0.5mm
Panic alarm	30M	0.5mm
LAN	100M	Cat5e*

^{*} Cat6 cable should not be used due to its bend radius requirements



1717/41 or 1717/43 Max Lite Touchscreen Monitor

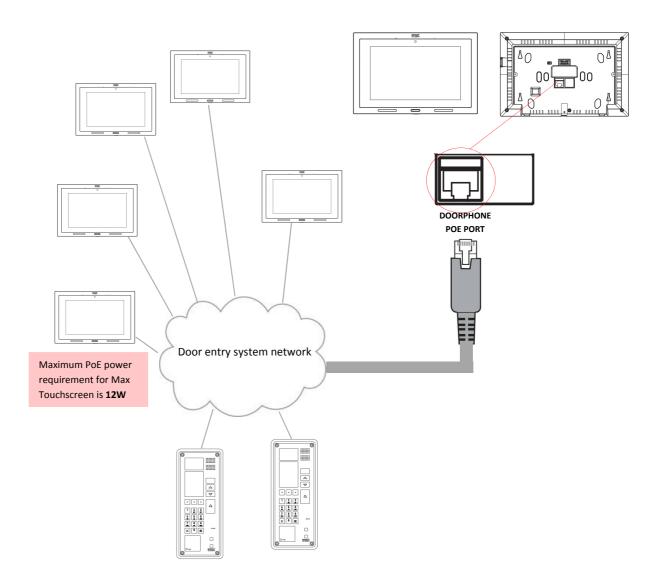




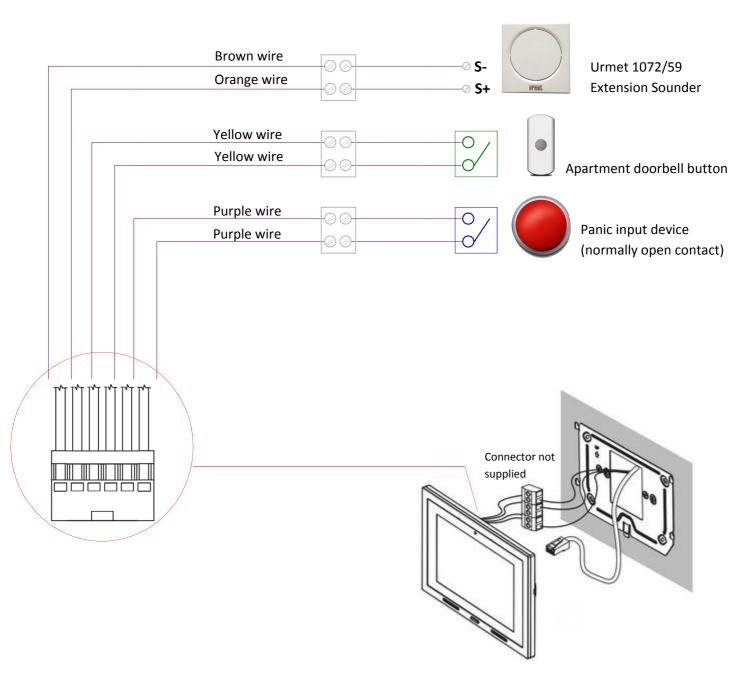
- 1 7" Touchscreen 6 Switch NOT USED
- 2 Microphone 7 12-Way connector for external connections
- 3 Speakers 8 LAN connection to IPerCom network
- 4 Blue backlit Home button
- 5 Micro SD card slot

1717/41 or 1717/43 Max Lite Touchscreen Monitor connections

The 1717/41 or 1717/43 Max Pro Touchscreen Monitor has one LAN connector for connection to the IPerCom 'door entry network'.

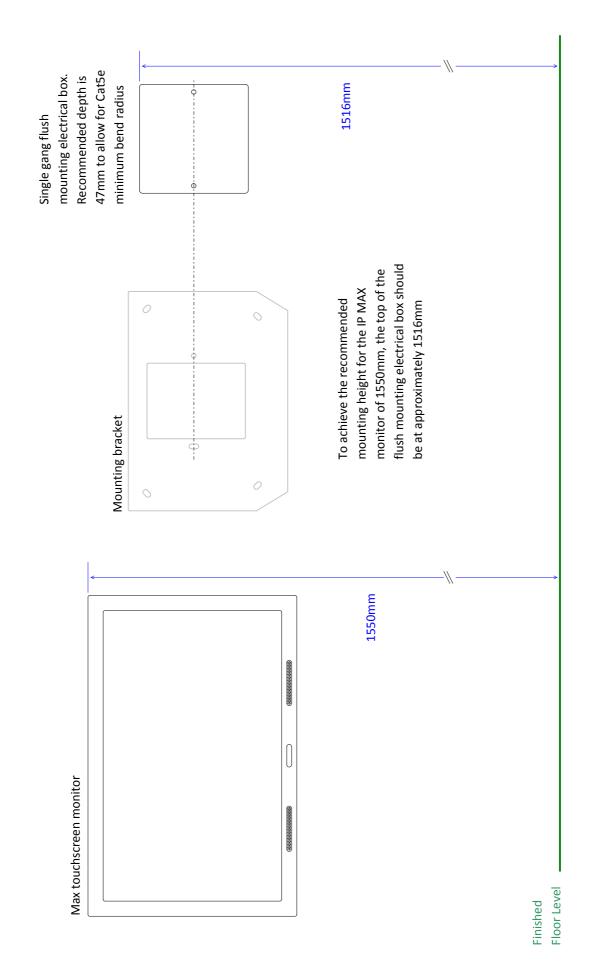


An additional cable is supplied to allow a number of external connections to the Max touchscreen, namely panic alarm input (which displays an alert on the concierge switchboard), an apartment doorbell push button input and an output to the Urmet 1072/59 extension sounder –

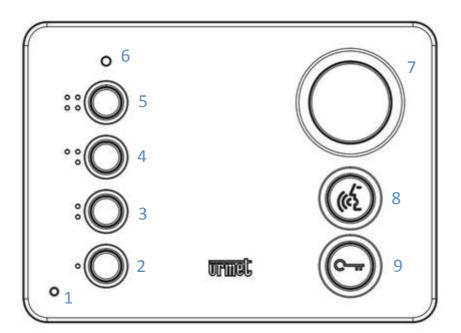


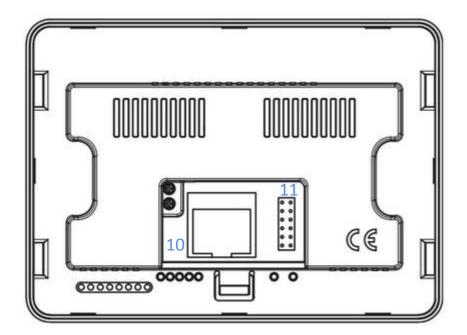
Type of connection	Maximum distance	Minimum cable cross section
Extension sounder	30M	0.5mm
Door bell	30M	0.5mm
Panic alarm	30M	0.5mm
LAN	100M	Cat5e*

^{*} Cat6 cable should not be used due to its bend radius requirements



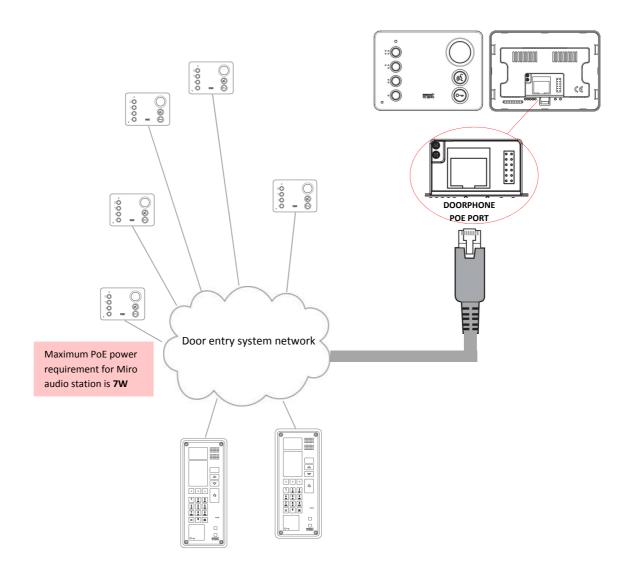
1160/3 Miro handsfree audio station



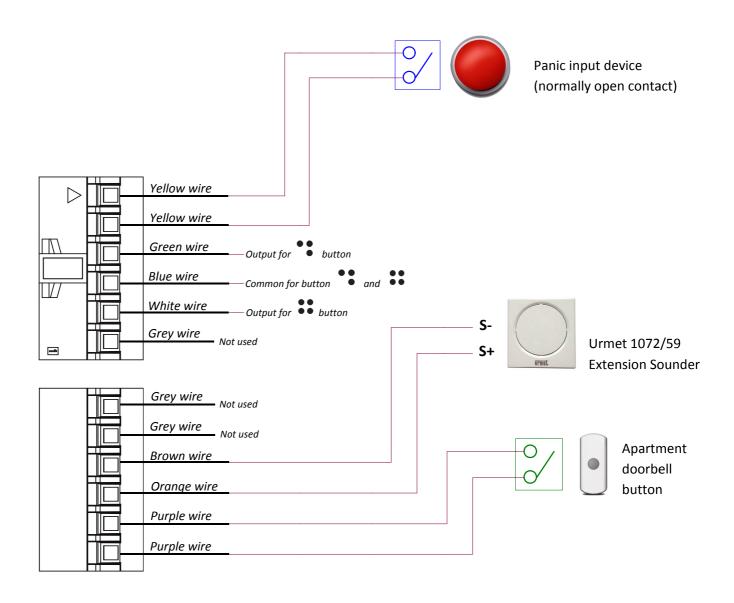


1 6 Microphone LED indicator 2 7 Additional function button Speaker 3 Additional function button 8 Push to talk button 4 9 **Button for Yokis control** Door open button 5 **Button for Yokis control** 10 LAN connection to IPerCom network 11 12-Way connector for external connections

1160/3 Miro handsfree audio station connections



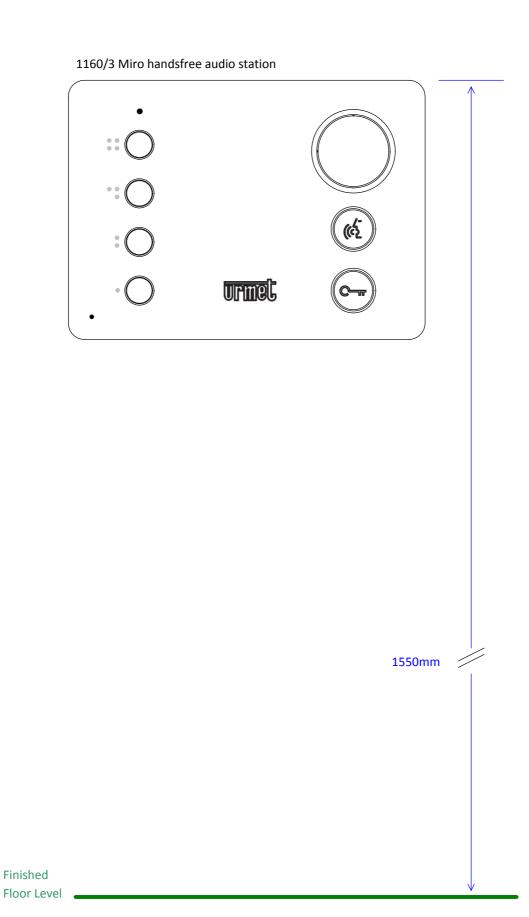
An additional cable is supplied to allow a number of external connections to the Miro audio station, namely panic alarm input (which displays an alert on the concierge switchboard), an apartment doorbell push button input, an output to the Urmet 1072/59 extension sounder and outputs to activate Yokis devices.



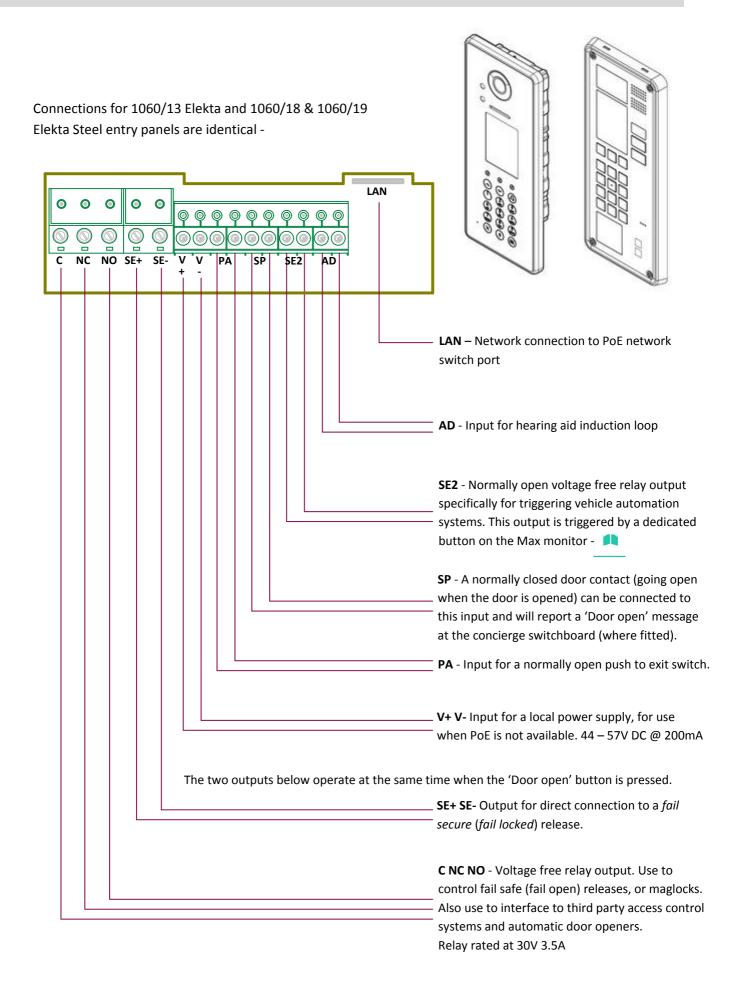
Type of connection	Maximum distance	Minimum cable cross section
Extension sounder	30M	0.5mm
Door bell	30M	0.5mm
Panic alarm	30M	0.5mm
LAN	100M	Cat5e*

^{*} Cat6 cable should not be used due to its bend radius requirements

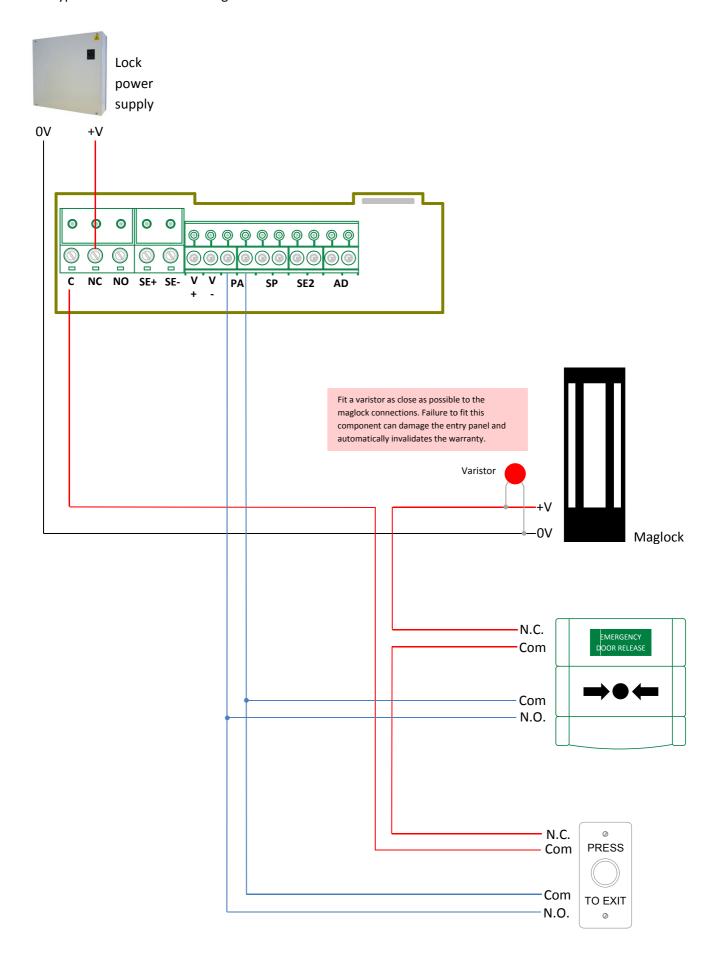
1160/3 Miro handsfree audio station mounting height



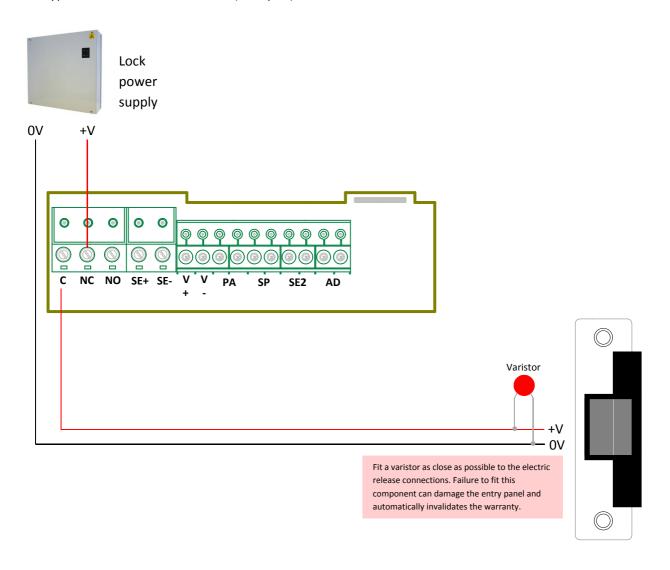
1060/13 Elekta, 1060/18 & 1060/19 Elekta Steel Call Modules



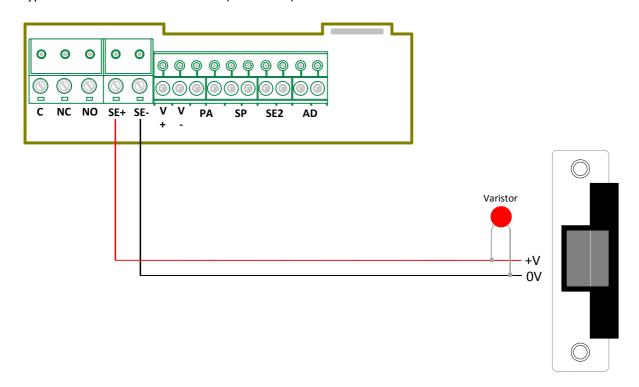
Typical connections for a maglock –



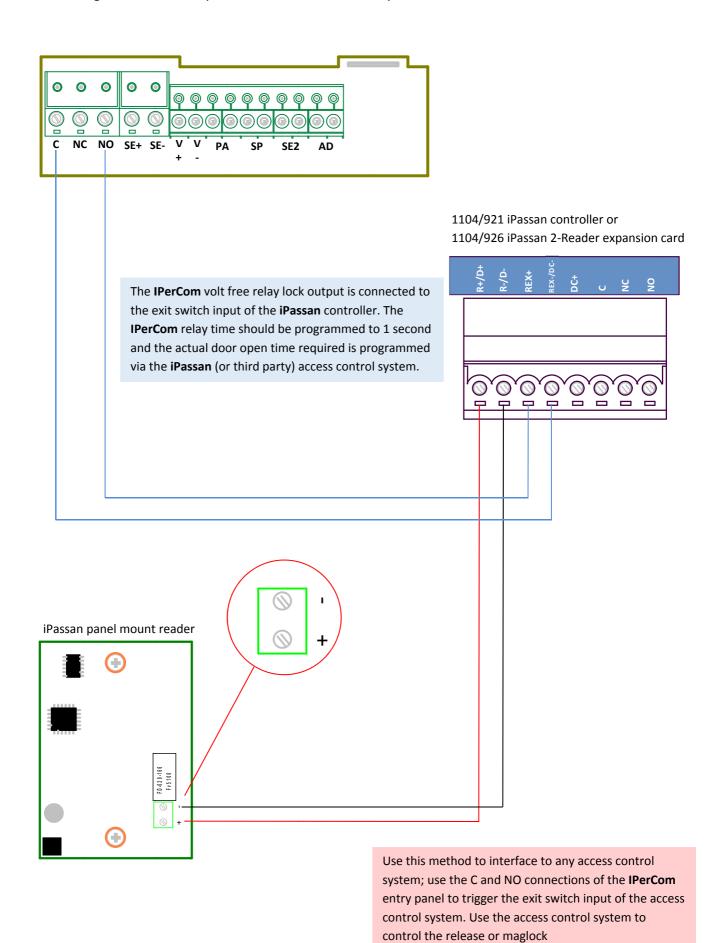
Typical connections for fail safe (fail open) electric release -



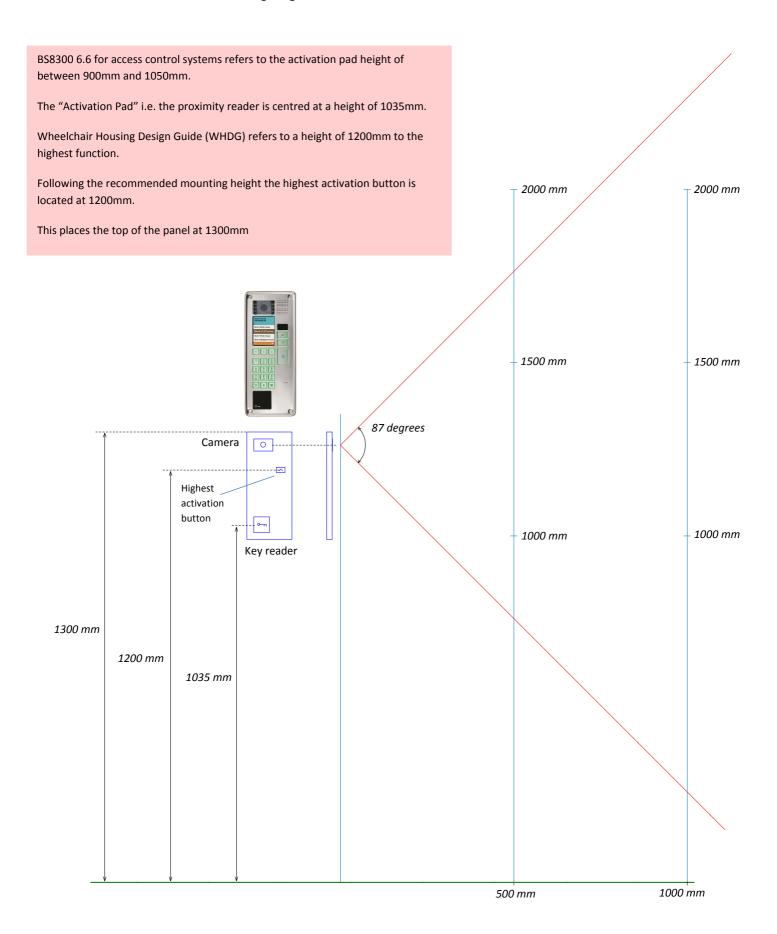
Typical connections for fail secure (fail locked) electric release -



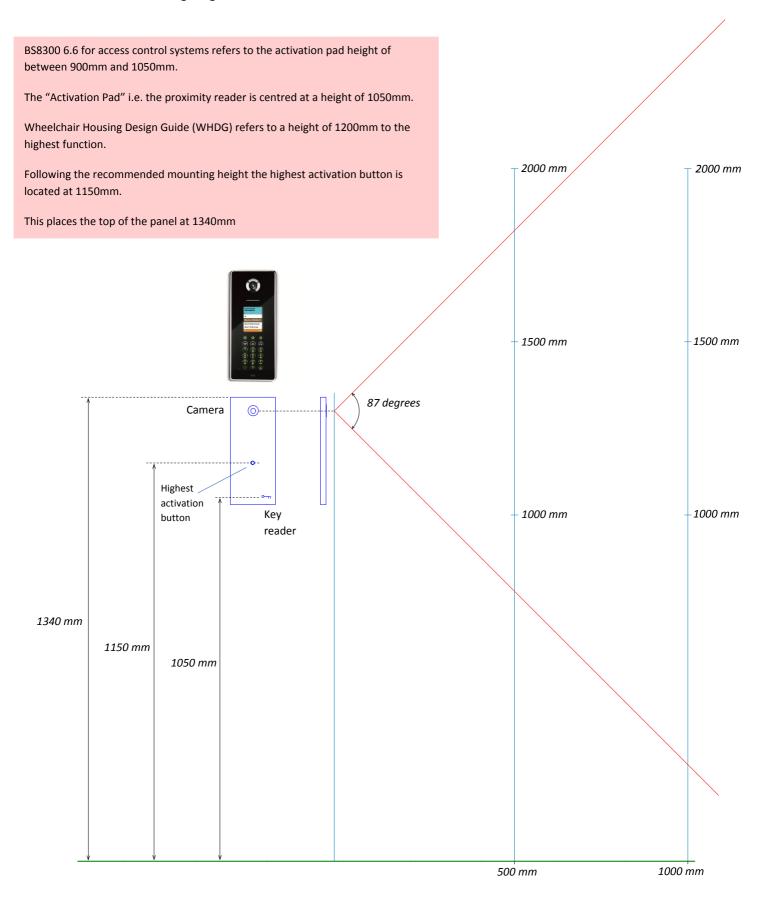
Interfacing IPerCom lock output to iPassan access control system -



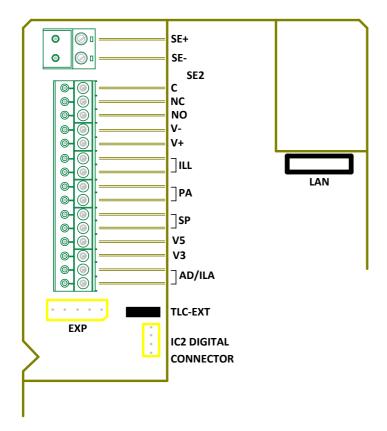
1060/18 & 1060/19 mounting height

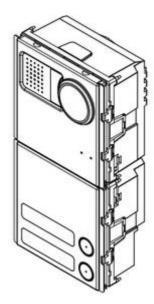


1060/13 mounting height

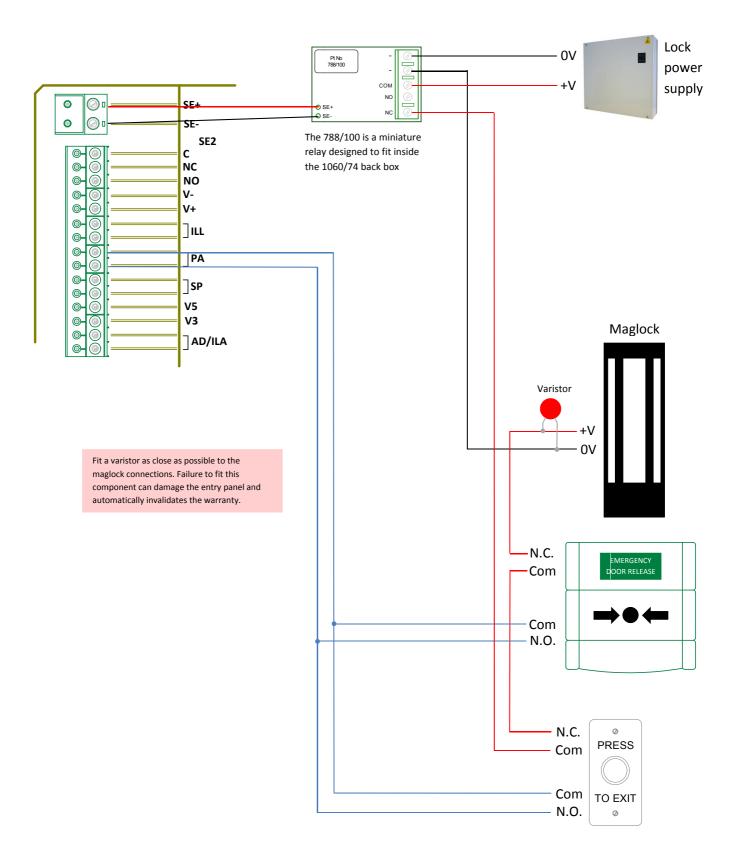


1060/74 Sinthesi Steel entry panel module

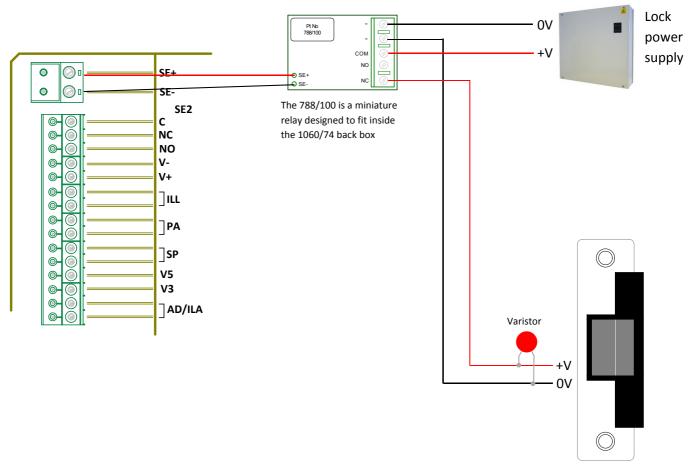




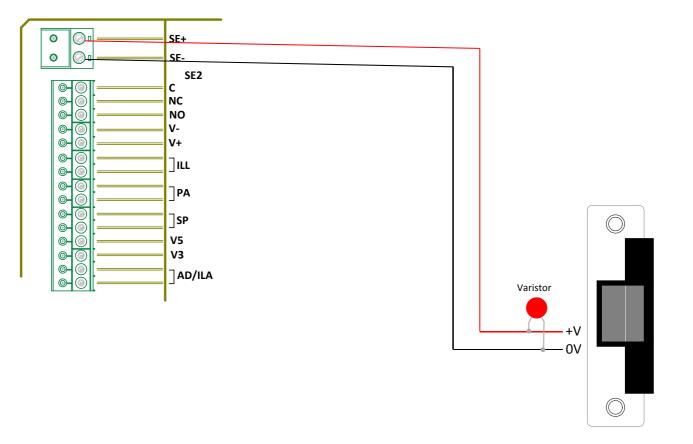
- LAN Network connection to PoE network switch port
- **SE+ SE-** Output for direct connection to a *fail secure* (*fail locked*) release.
- **SE2 C NC NO** Voltage free relay output specifically for triggering vehicle automation systems. This output is triggered by a dedicated button on the Max monitor -
- V+ V- Input for a local power supply, for use when PoE is not available. 44 57V DC @ 200mA
- ILL Output to illuminate further button module nameplates
- **PA** Input for a normally open push to exit switch.
- **SP** A normally closed door contact (going open when the door is opened) can be connected to this input and will report a 'Door open' message at the concierge switchboard (where fitted).
- V5 External CCTV camera input Ground
- V3 External CCTV camera input Signal
- **AD/ILA** Input for 1158/48 Hearing Aid Module
- **EXP** Connector Used to connect 1158/12 and 1158/14 Button modules. See the product manual supplied with the 1060/74.
- **IC2 DIGITAL CONNECTOR** Used to connect 1158/47 DDA Module. See the product manual supplied with the 1158/47.
- TLC-EXT Jumper should be in the ON position if an external CCTV camera is connected to V3 & V5.

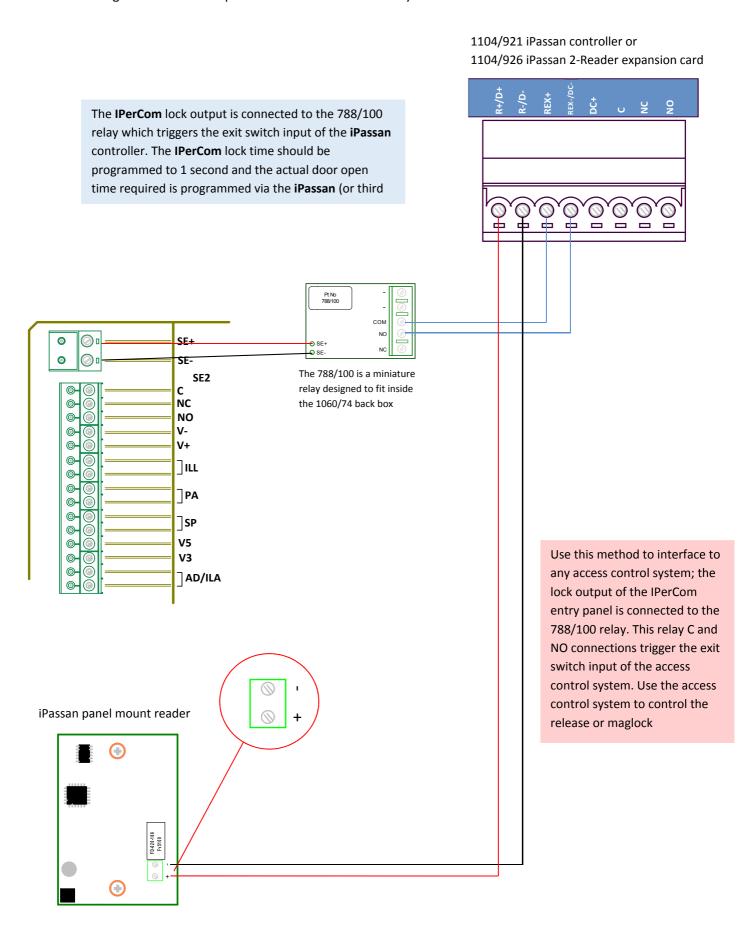


Typical connections for fail safe (fail open) electric release -

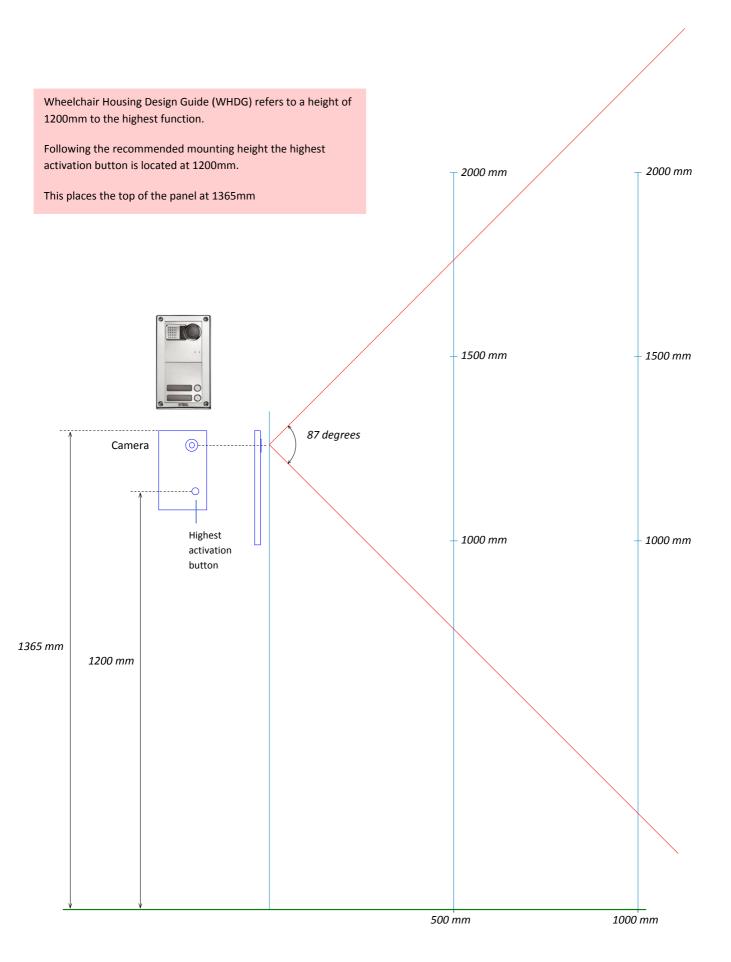


Typical connections for fail secure (fail locked) electric release -

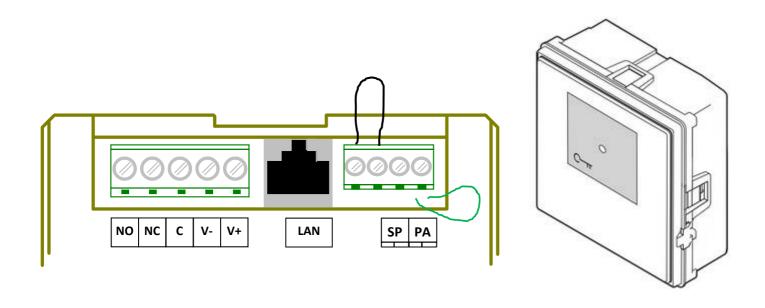




1060/74 mounting height



1060/82 proximity key reader module



NO NC C – Voltage free clean contact lock release output rated at 30V @ 3.5A

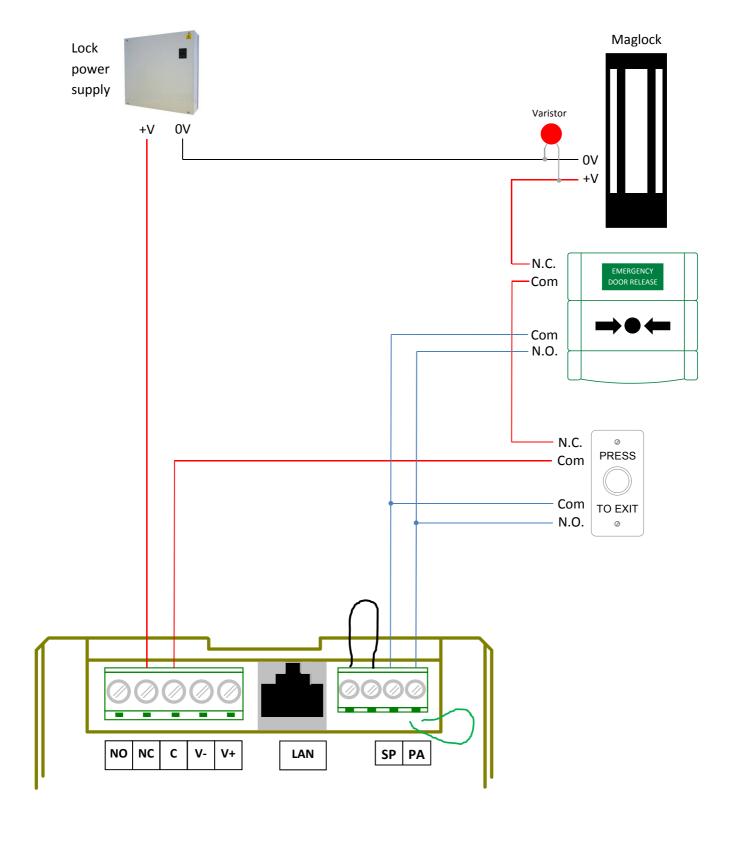
V+ V- Input for a local power supply, for use when PoE is not available. 44 – 57V DC @ 200mA

LAN – Network connection to PoE network switch port

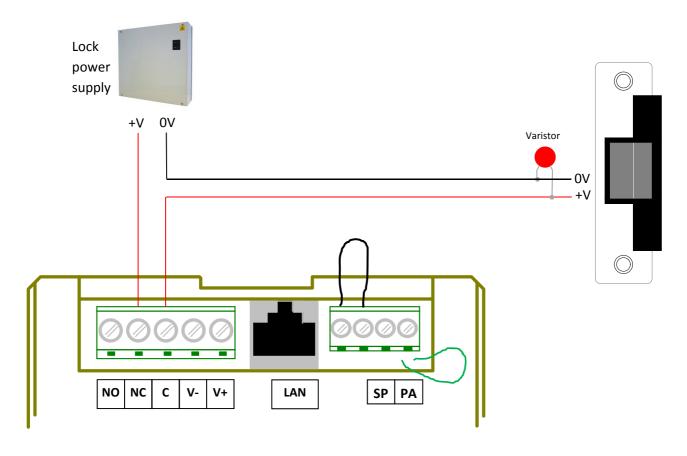
SP - A normally closed door contact (going open when the door is opened) can be connected to this input and will report a 'Door open' message at the concierge switchboard (where fitted). By default the input is linked. This link must be removed if a door contact is being used.

PA - Input for a normally open push to exit switch.

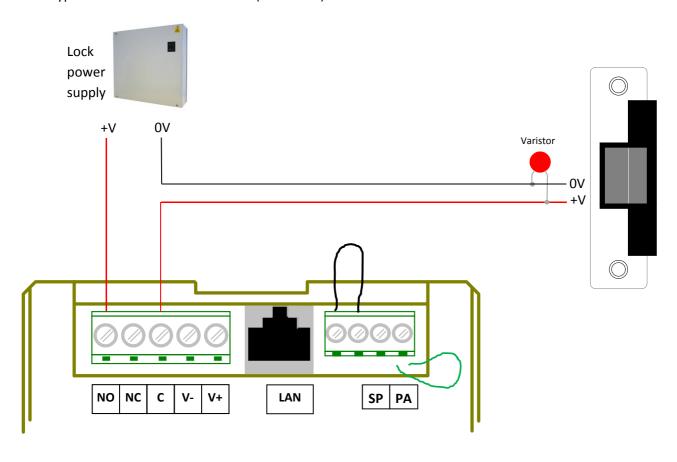
The green loop wire can be used to connect a normally closed tamper switch – see the manual supplied with the product.



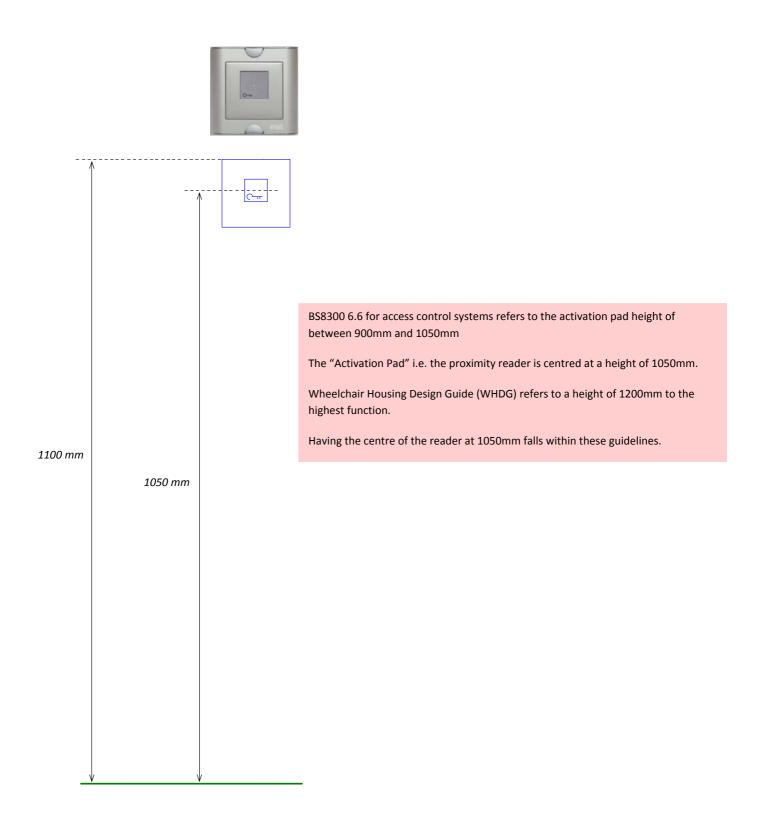
Typical connections for fail safe (fail open) electric release -



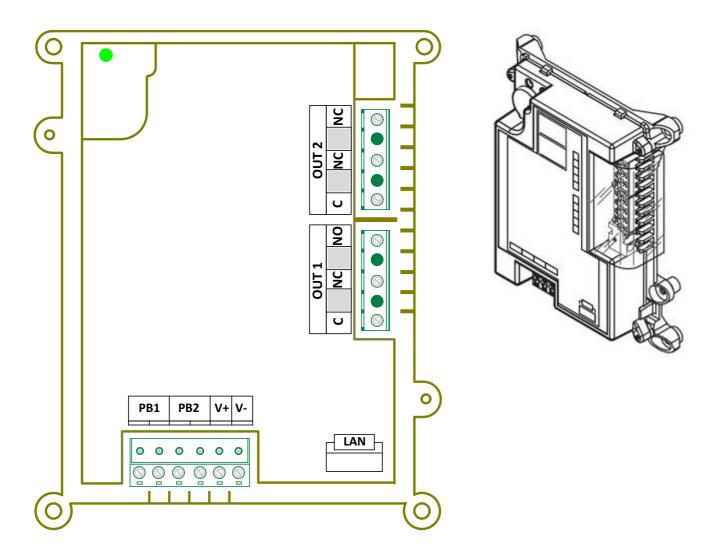
Typical connections for fail secure (fail locked) electric release -



1060/82 mounting height



1060/84 Relay Module



- PB1 External normally open clean contact input 1
- PB2 External normally open clean contact input 2
- OUT1 NO NC C Voltage free clean contact relay output rated at 30V DC @ 5.0A or 250V AC @ 5.0A
- OUT2 NO NC C Voltage free clean contact relay output rated at 30V DC @ 5.0A or 250V AC @ 5.0A
- V+ V- Input for a local power supply, for use when PoE is not available. 44 56V DC @ 50mA
- LAN Network connection to PoE network switch port

LED Functions –

Slow blinking = acquisition of IP address in progress.

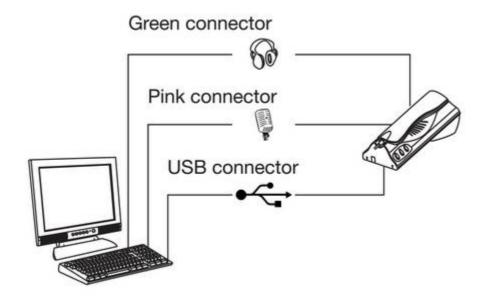
Steady on = IP address has been obtained

1060/41 Concierge Handset

Plug the loudspeaker connector (green connector) into the PC loudspeaker output

Plug the microphone connector (pink connector) into the PC microphone output

Plug the USB connector into a spare USB port on the PC



Internal connection -

S+ S- Connection for 1072/59 External Sounder

It is not necessary to install driver software for the 1060/41 Switchboard Handset. Installation starts automatically when the USB connector is plugged into the PC.

<u>Notes</u>





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