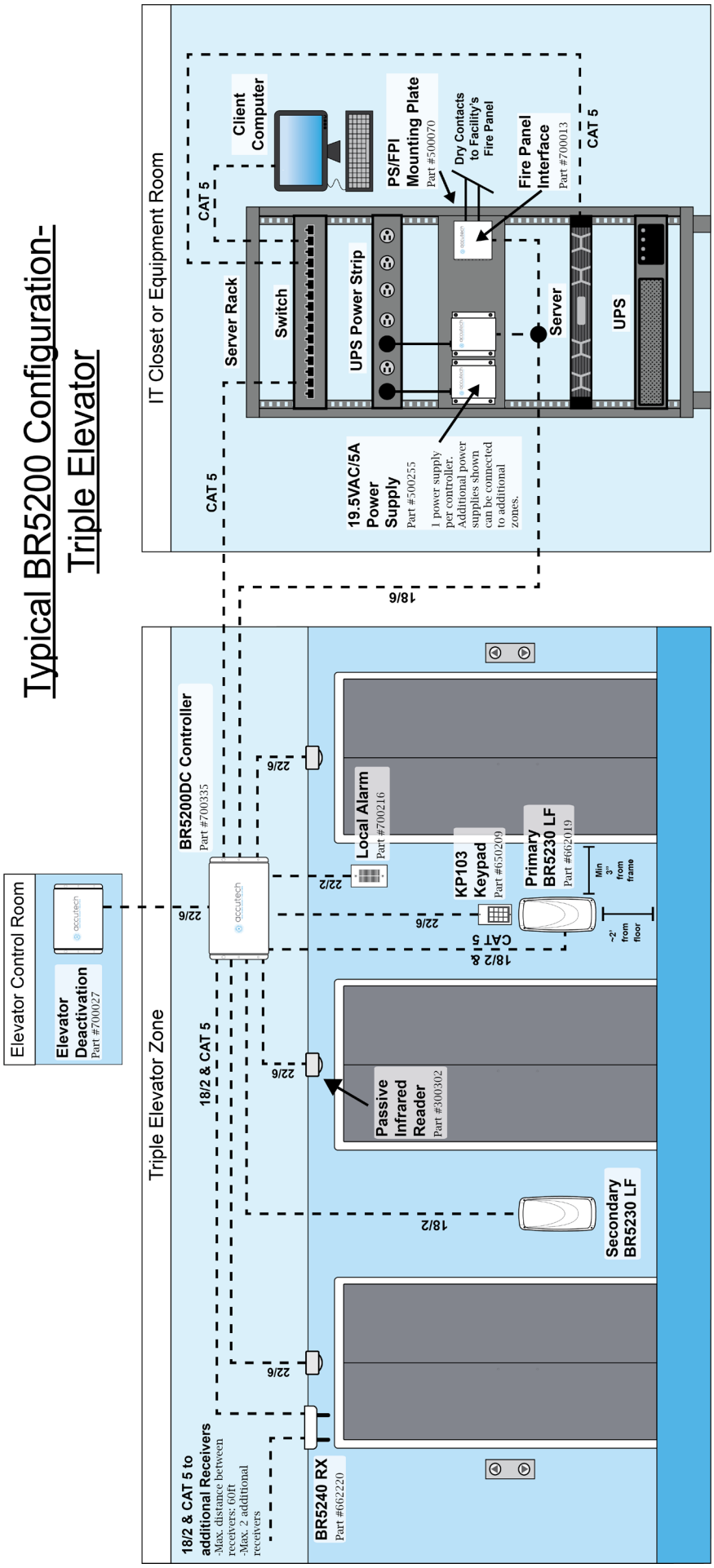
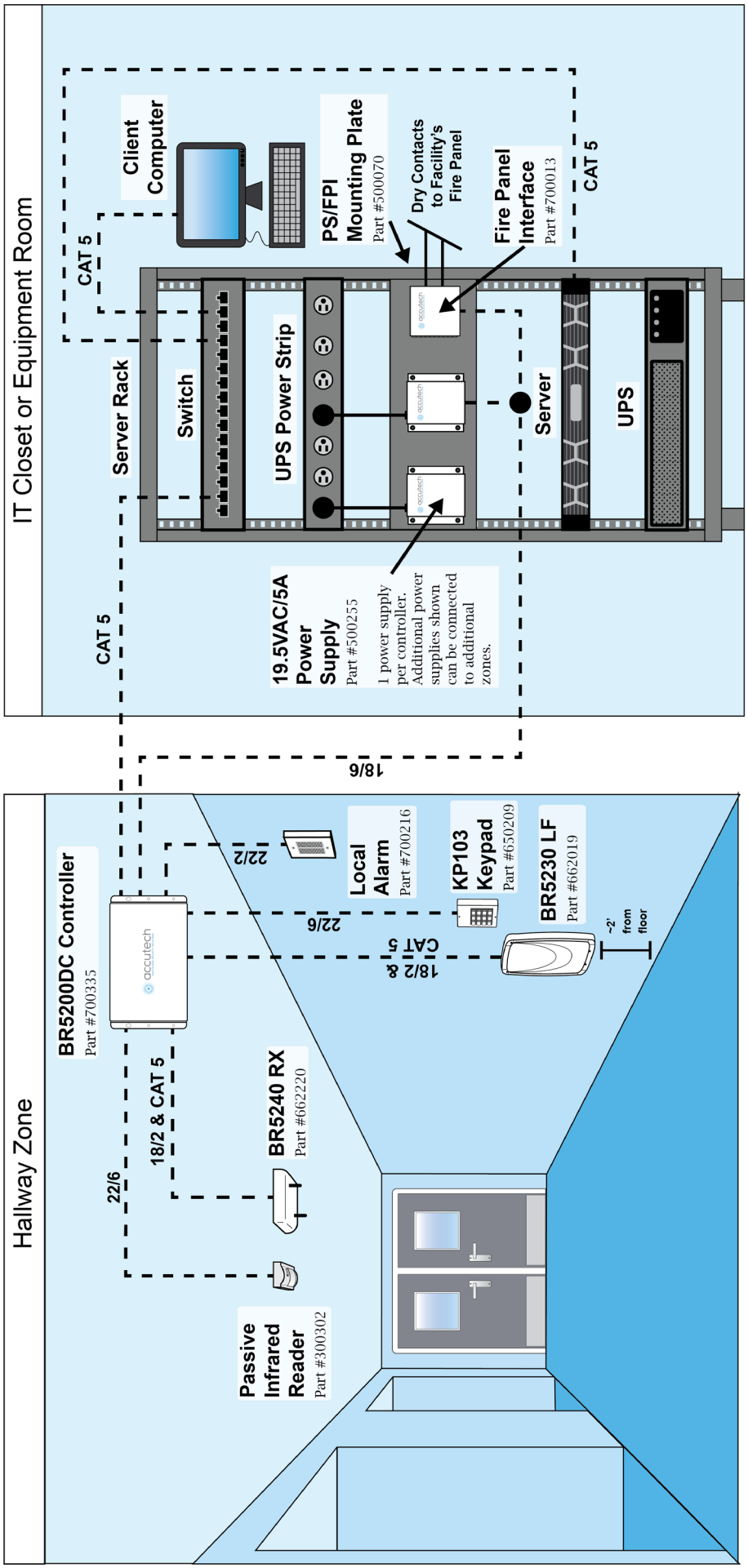
Typical BR5200 Configuration-Triple Elevator



Typical BR5200 Configuration - Hallway

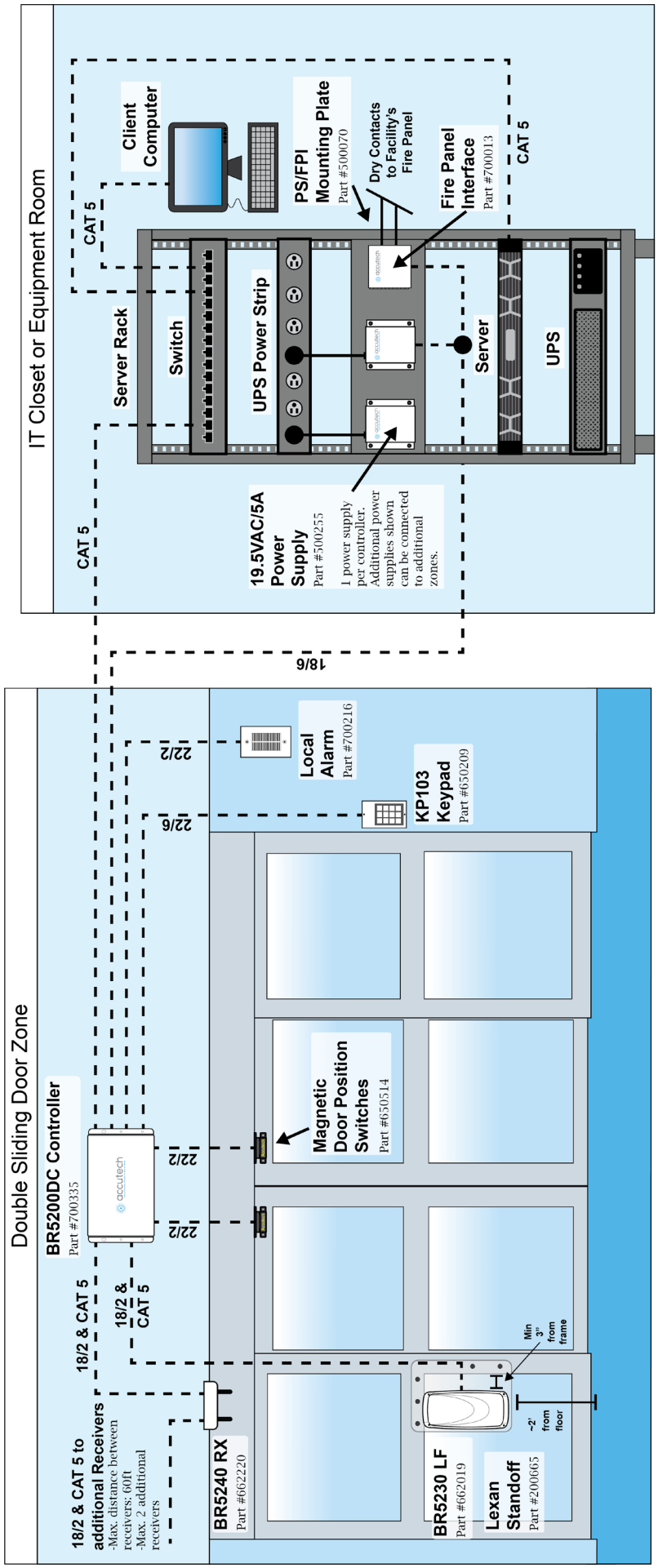


Important:

BR5230 LF (Part #662019):
- Not designed for ceilng mount.
- Position at least 3" away from any metal

Passive Infrared Reader (Part #300302):
- Mount facing down toward floor

Typical BR5200 Configuration - Double Sliding Doors

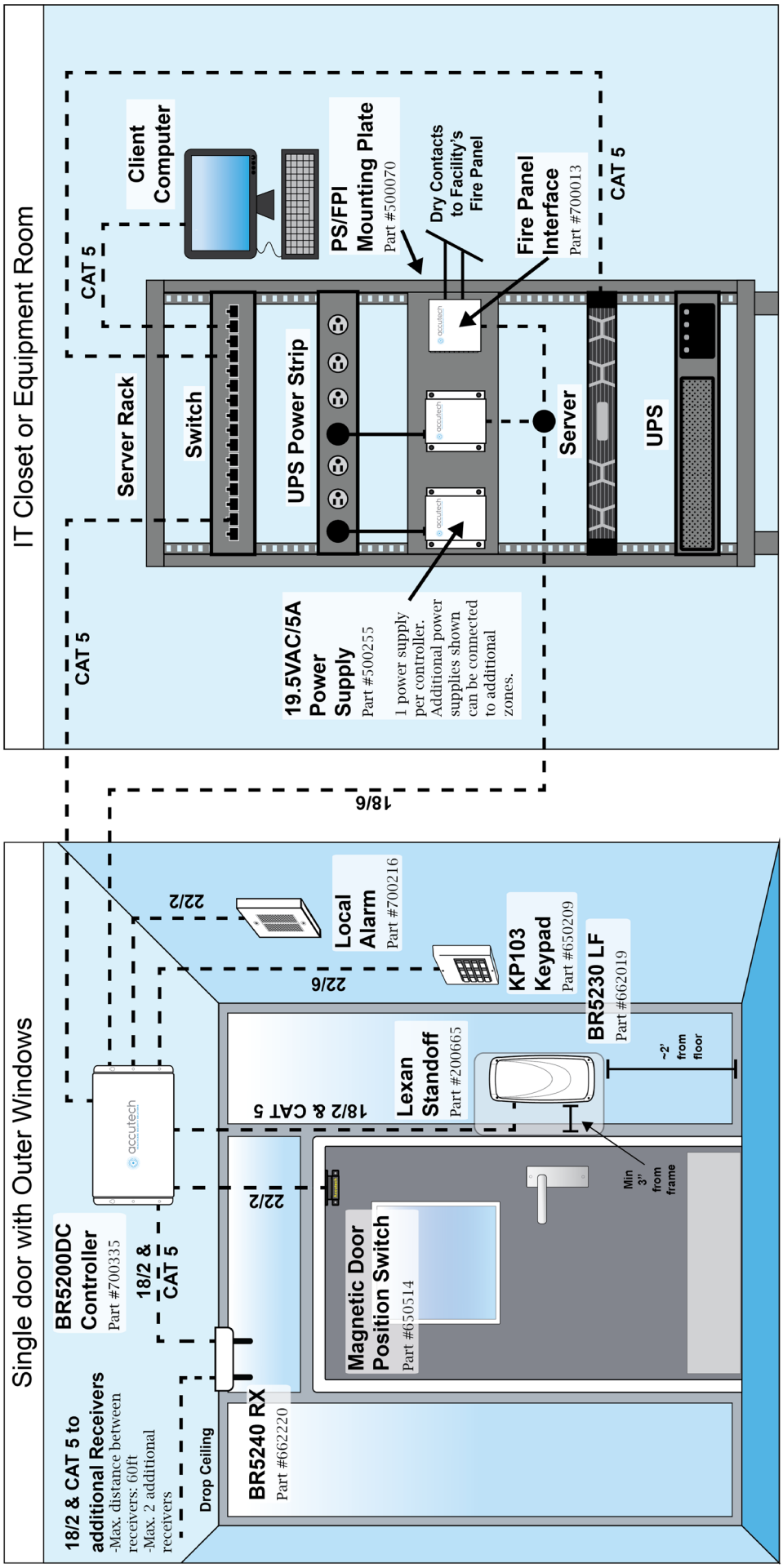


Important:

BR5230 LF (Part #662019):
- Not designed for ceiling mount.
- Position at least 3" away from any metal

Magnetic Door Position Switch (Part #650514):
- Position on latch side of top of door

Typical BR5200 Configuration - Single Door With Outer Windows

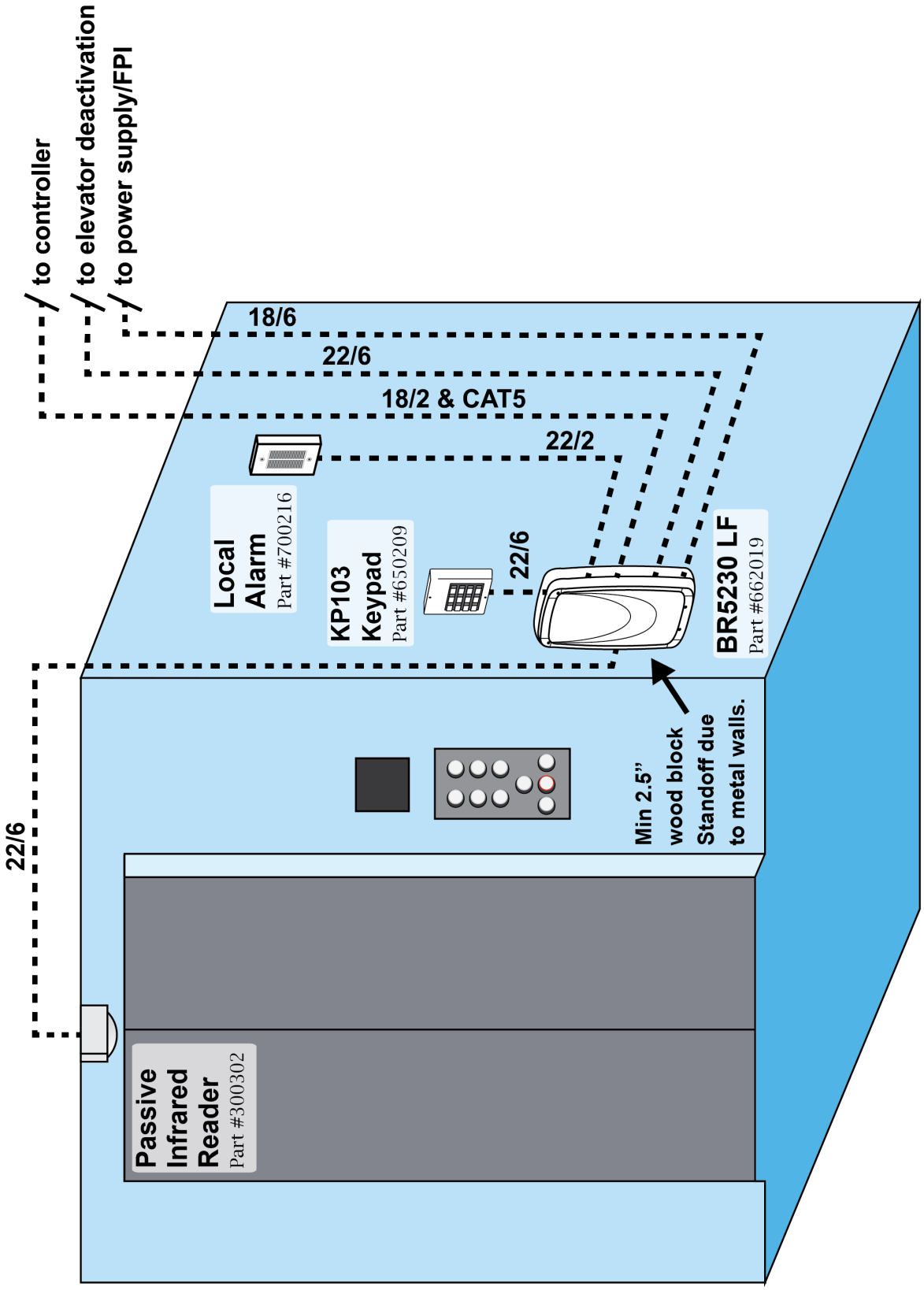


Important:

BR5230 LF (Part #662019):
- Not designed for ceilng mount.
- Position at least 3" away from any metal

Magnetic Door Position Switch (Part #650514):
- Position on latch side of top of door

Typical BR5200 Configuration - Single Elevator Interior



*All cable requires shielding

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Chapter 2
Wires and Cables

Wires and Cables

- Cable Door Kit
- Wire Gauge Table
- Fire Panel Cable Specifications

Each component in the Accutech system has its own wiring requirements. They have been determined by:

- The amount of Current they will draw
- The voltage they require
- The type of Signal they will carry
- They Distance the signal can/will travel
- The type of environment the cables will be exposed to
- National Fire Prevention Association (NFPA) codes
- National Electrical Code (NEC)

All cables used by Accutech are “Plenum” rated unless otherwise specified. This allows them to be run in areas that other cable would not be allowed. Be sure you consult local, state, and federal codes as well as with your Accutech representative before making any wiring substitutions.

Cable Door Kit

Accutech’s Cable Door Kit (see Table 2.1) is the building block for the installation of any type of zone.

As options are added, additional wire or cables will be required.

Accutech Part #	Gauge/ Conductor	Shielded?	Length in Feet	Used for
200356*	CAT5	No	65	LF Antenna RX Antenna
200302	18/6	No	65	Lock
200306 (Optional)	22/2	No	65	For delayed egress and bond sensor
200306	22/2	No	65	Magnetic Switch; Local Alarm
200338	22/6	No	65	Keypad, PBO, PIR
200307	18/2	Yes	65	LF TX Antenna

Table 2.1 - Accutech Cable Door Kit #700150 Contents
*not included in the door kit

Wire Gauge Table

The following table indicates the recommended minimum wire gauge for a given length of cable. This table reflects the fact that there are two conductors, power and ground, running to each device. 1000 feet of cable means the supply current travels a total of 2000 feet.

Note: Stranded copper conductor wire is highly recommended.

Fire Panel Cable Specifications

The addition of a Lock requires an interface to the Fire Panel. If future expansion of the system is a possibility, it is recommended that you use a Fire Panel Interface (FPI) unit.

If expansion is not possible and there are only one or two zones, a Fire Panel Relay (with 3 sets of dry contacts) can be used instead.

If an FPI unit is used, you will need to run a separate 2-conductor cable from every Zone Controller's IO board.

Supply Voltage	V Min	Peripheral Device	Current @ 12V AC/DC	1'-25'	25'-100'	100'-250'	250'-500'
12VDC	12V	Local Alarm	12mA	24	24	NA	NA
15VDC	15V	Receiver	125mA	22	18	NA	NA
120VAC	19.5VAC	Power Supply	5A	18	18	16	14
12VDC	9V	Keypad 103	100mA	24	24	NA	NA
12VDC	9V	Keypad 403	100mA	24	24	NA	NA
150VDC	6V	Mag Switch	500mA	24	24	NA	NA
12VDC	12V	PIR	15mA	24	24	NA	NA
12VDC	9V	Elevator Deactivation Relay	120mA	22	22	22	22
12VDC	10.5V	3101 Lock*	300mA	18	18	NA	NA
12VDC	10.5V	FPI	120mA	22	22	22	22

Table 2.2 - Wire Gauge Table
*This is for one lock

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Chapter 3
The BR5200 Controllers

The BR5200 Controllers

- Functionality
- Door Controller Specifications
- RXC Controller Specifications
- Positioning
- Mounting
- Wiring
- The Microprocessor
- The IF Board
- The IO Board

Figure 3.1 - BR5200DC Door Controller (with cover)

Functionality

There are two versions of the BR5200 Controller – a BR5200DC Controller, and a BR5200RXC Controller.

Each Controller requires 19.5VAC of power and features a Super Capacitor that prevents detrimental power loss/shutdown. See Power Supply chapter for information on wiring power to the Controller.

The Controllers are IP-addressable via their microprocessors to distinguish individual Controllers from one another when configuring in the Controller Maintenance Software.

Up to nine Receivers (three buses of three Receivers each) can be connected to one RXC Controller. Up to six Receivers (two buses of three Receivers each) can be connected to one Door Controller. See Receivers chapter for more information.

Each Controller is fully software-configurable. For information on configuration, see the Controller Maintenance Software chapter of this manual.