



Ferroguard Assure and MRISM Installation Checklist and Cut Sheet

This comprehensive document provides essential pre-installation requirements and system information vital for successfully installing Ferroguard Assure and MRISM, Metrasens advanced entry-control system.

Rest assured, your dedicated Customer Success representative is ready to assist you every step of the way. Should you have any inquiries, feel free to reach out to us at support@metrasens.com.

We're here to ensure your installation journey is smooth and seamless!

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Pre-installation Requirements

Installation appointments are contingent upon completion of this checklist by the facility's electricians. Failure to have the equipment on-site or complete the necessary prework upon the installer's arrival will result in a \$3,500 return travel fee for subsequent visits.

- | | |
|---|--------------------------|
| 1. Ferroguard Assure's Hub.* | <input type="checkbox"/> |
| a. Hub installed by an electrician above the ceiling just above the entry door. The AC power must be connected to the Hub via the Isolation Switch | <input type="checkbox"/> |
| b. Ensure AC power is functioning by verifying the illumination of the green light upon turning on the isolation switch. | <input type="checkbox"/> |
| c. <u>Note: Do NOT connect the red, blue, green, and grey cables to the hub. Only run the power line into the hub.</u> | <input type="checkbox"/> |
| 2. Electrical Requirements for the Installation of the Sensor Units*: | <input type="checkbox"/> |
| a. Left Side: 1" conduit with red-colored cable on the door-handle side entry. | <input type="checkbox"/> |
| b. Right Side: 1" conduit with green-colored cable on the hinge-side entry. | <input type="checkbox"/> |
| c. Remove obstructions (e.g., signs, switches, guardrails) to facilitate the system's mounting on the wall. | <input type="checkbox"/> |
| 3. Electrical Requirements for the Installation of the ODAS Door Sensor*: | <input type="checkbox"/> |
| a. (1) hole, 1" conduit and blue-colored cable installed above the door, 10" from hinges, and 2.0" from the closed-door face, on the bottom or underside of the header/soffit, with 2" clearance from the top of the door and bottom of the soffit/header (no J-box). | <input type="checkbox"/> |
| 4. MRISM* | <input type="checkbox"/> |
| a. (1) Hole, 1" conduit, and Grey/Beige colored cable installed under the control room desk. The 9-Pin connector towards the hub and the Cat-6, under the Control Room desk, a standard 110 outlet within 12" of the hole (No J-boxes). | <input type="checkbox"/> |
| 5. Door Entryway*: | <input type="checkbox"/> |
| a. Ensure there is a minimum clearance of 4" on the left and right sides of the MRI door near the corner edges of the door frame. | <input type="checkbox"/> |
| 6. Conduit: Terminate all conduits 4" below the hub. | <input type="checkbox"/> |
| 7. MRISM Connectivity: Provide network name and password for data analytics connectivity. | <input type="checkbox"/> |
| a. Network name: | |
| b. Password: | |
| 8. Ensure the magnet is fully ramped. | <input type="checkbox"/> |
| 9. Ladder: Provide a facility-provided ladder for the engineer's access to the hub. | <input type="checkbox"/> |
| 10. Ferroguard Units: Ensure Ferroguard units are onsite at the installation location and remain unopened. | <input type="checkbox"/> |

*Please provide a photograph to Metrasens.

Installation Schedule and Considerations:

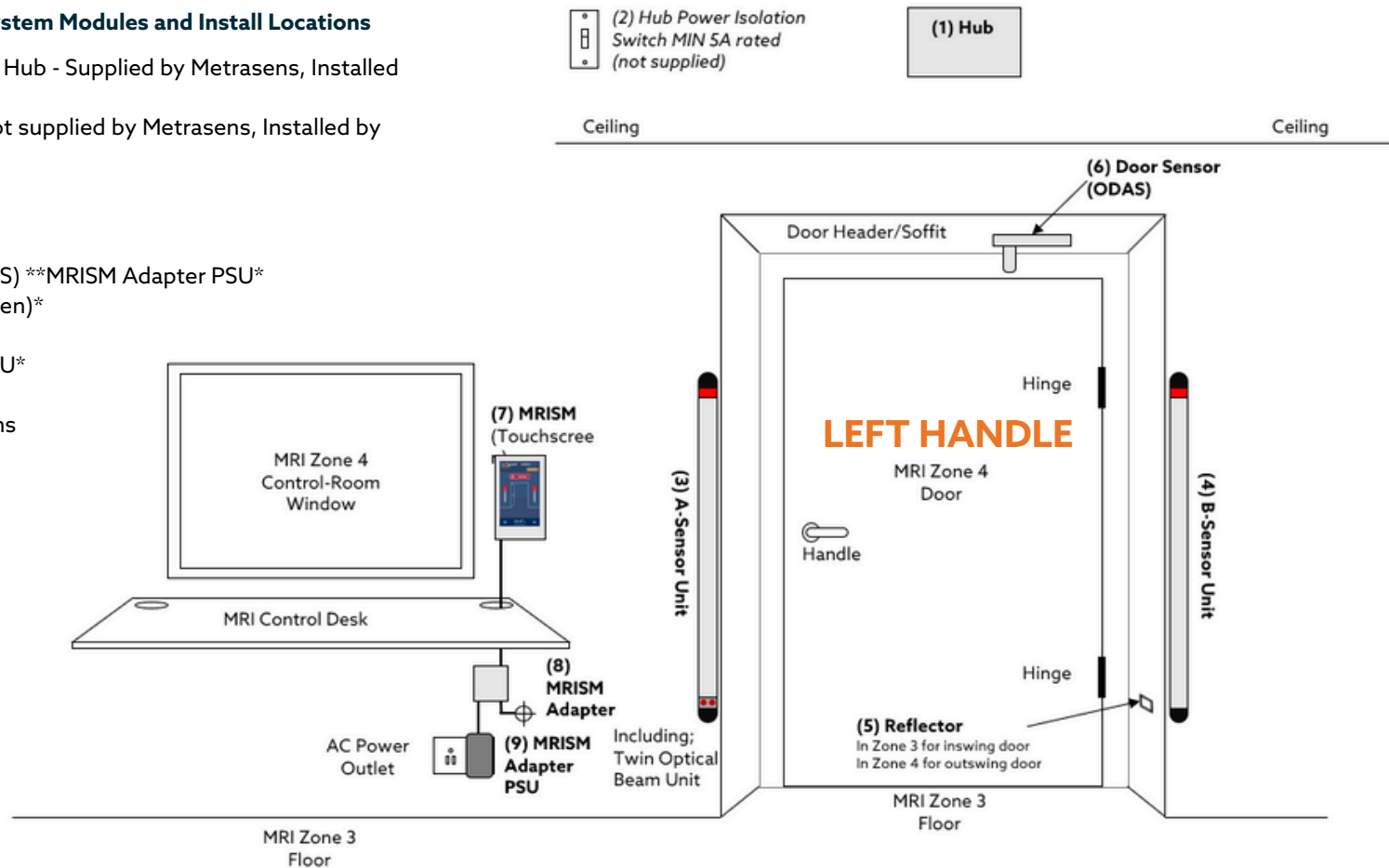
- Installations are conducted Monday through Friday from 8:00 AM to 5:00 PM local time. After-hours installation is available for an additional fee.
- During the installation multiple ceiling tiles will be removed and remain out during the installation process. The door will be opened and closed multiple times during calibration, and a ladder will be placed in front of the door at a time, restricting access to the room.

Installation Cut Sheet for Left-Handle Doors

Ferroguard Assure System Modules and Install Locations

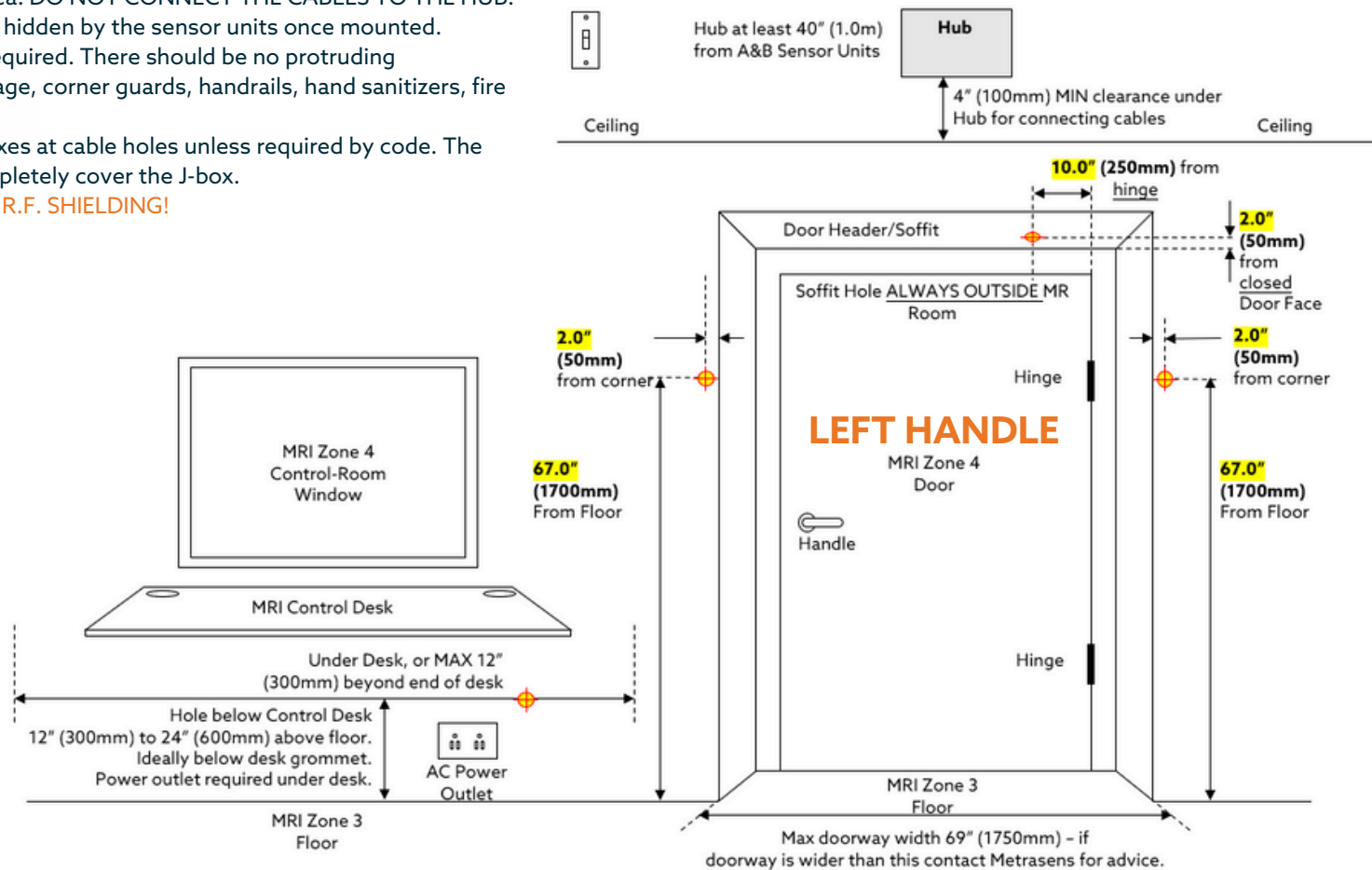
- (1) Ferroguard Assure Hub - Supplied by Metrasens, Installed by Facility/Electrician.
- (2) Isolation Switch (Not supplied by Metrasens, Installed by Facility/Electrician.
- (3) A Sensor Unit*
- (4) B Sensor Unit*
- (5) Reflector*
- (6) Door Sensor (ODAS) **MRISM Adapter PSU*
- (7) MRISM (Touchscreen)*
- (8) MRISM Adapter*
- (9) MRISM Adapter PSU*

*Installed by Metrasens



⚡ = Cable Hole Centers: 3 in wall & 1 in Door Header/Soffit

- ALL holes OUTSIDE MR Room in Zone 3, NOT in Zone 4.
- 1.25" Hole with CONDUIT (flex conduit preferred)
- The conduit must be run from the four holes to just below the Hub. Please terminate the conduit 4"–6" below the Hub.
- Colored cables must be inserted inside each conduit running from the hole to the Hub area. DO NOT CONNECT THE CABLES TO THE HUB.
- Cable holes will be hidden by the sensor units once mounted.
- Flat surfaces are required. There should be no protruding components, signage, corner guards, handrails, hand sanitizers, fire extinguishers, etc.
- Do not use fit J-boxes at cable holes unless required by code. The system won't completely cover the J-box.
- **DO NOT DAMAGE R.F. SHIELDING!**



Cable Routing:

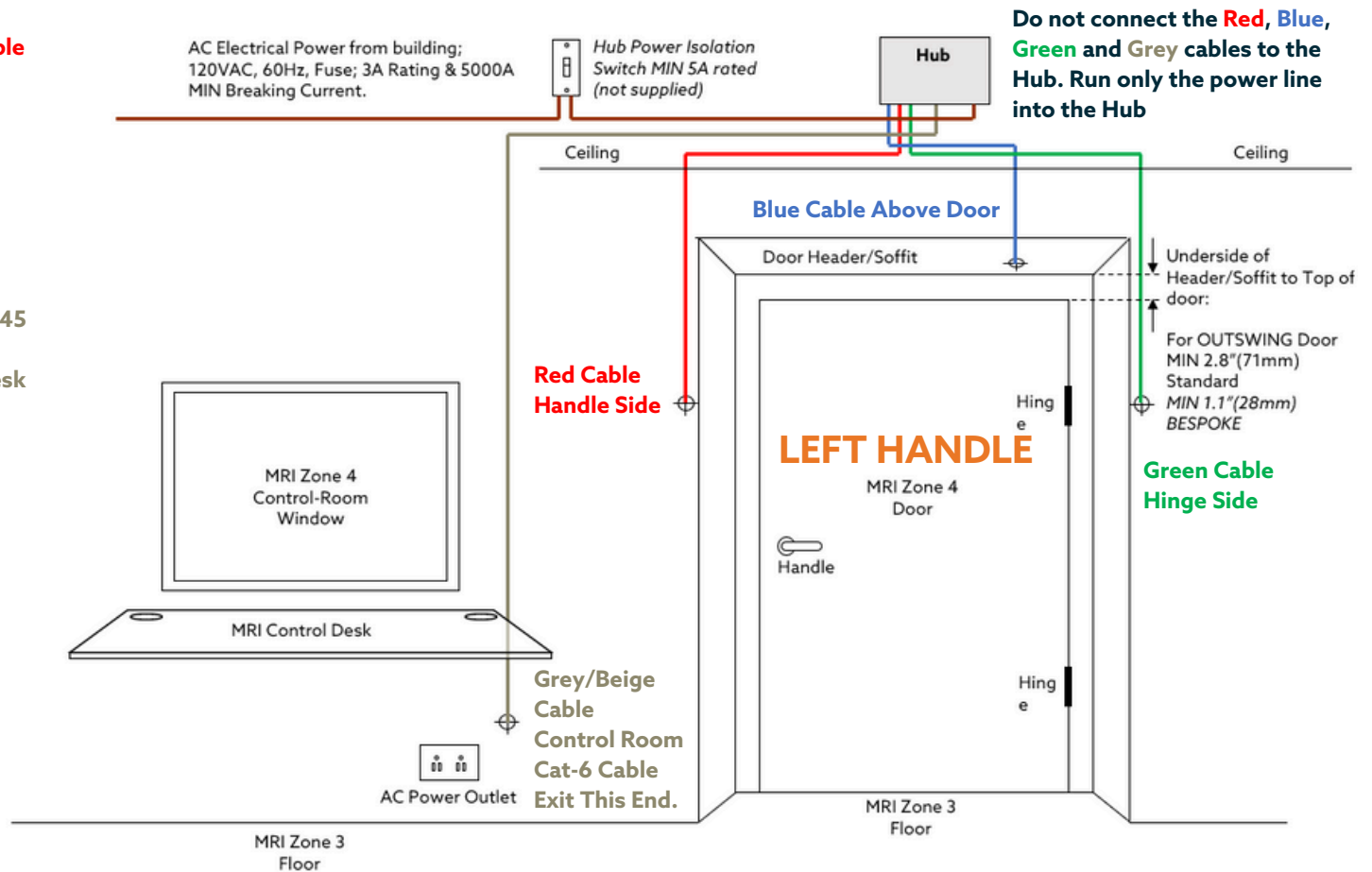
DO NOT CONNECT CABLES TO THE HUB

Install the Blue Ethernet cable from the hub area to the underside of the door header/soffit (16'5" or 5m).

Install the Red Ethernet cable from the Hub to the door handle side (16'5" or 5m.)

Install the Green Ethernet cable from the Hub area to the hinge-side of the door (16'5" or 5m.)

Install the Grey/Beige D-RJ45 Cable from the Hub to the underside of the control desk (65'7" or 20m.) The 9-pin connector to the Hub area and the Ethernet to the underside of the desk.

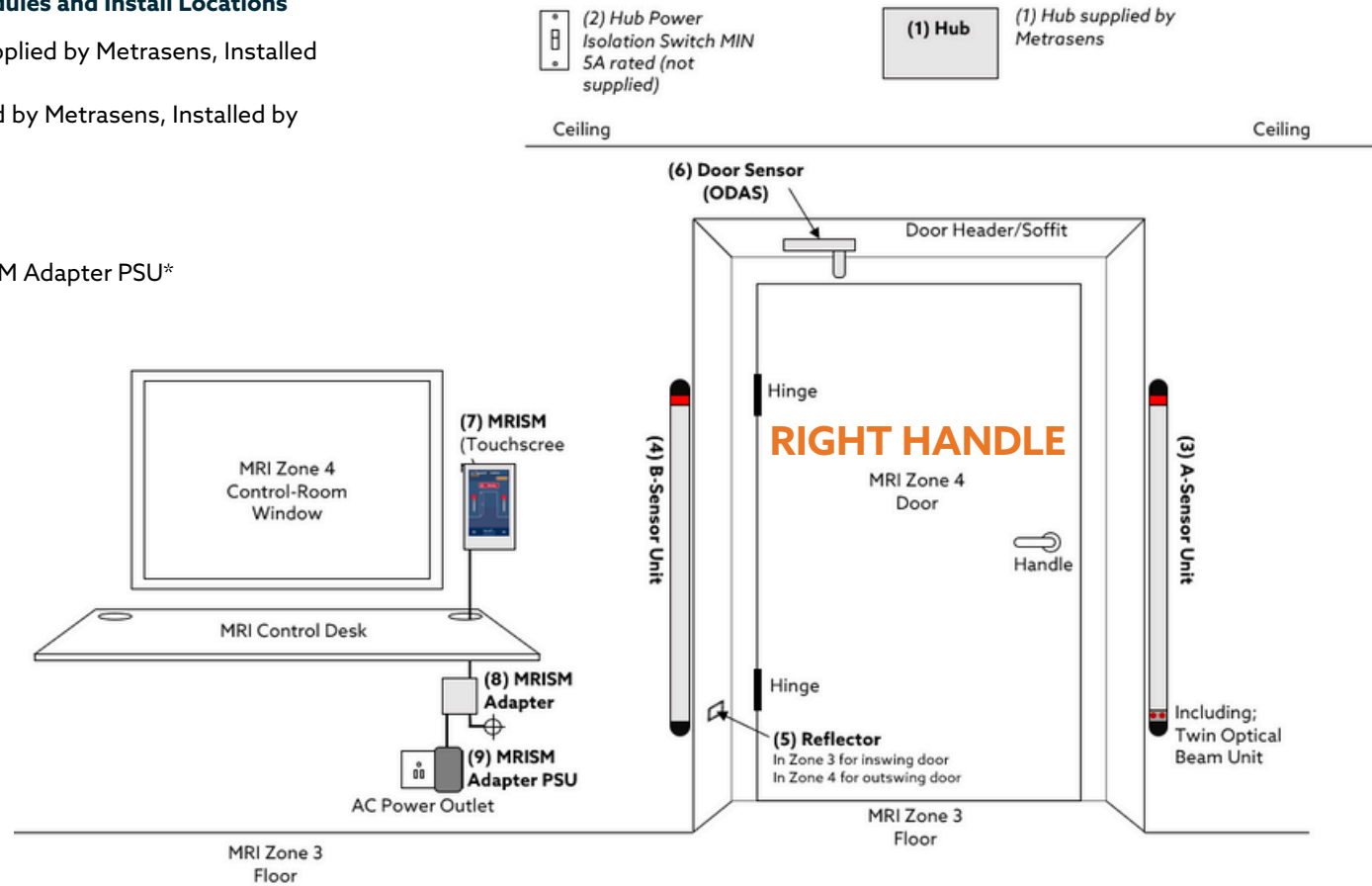


Installation Cut Sheet for Right-Handle Doors

Ferroguard Assure System Modules and Install Locations

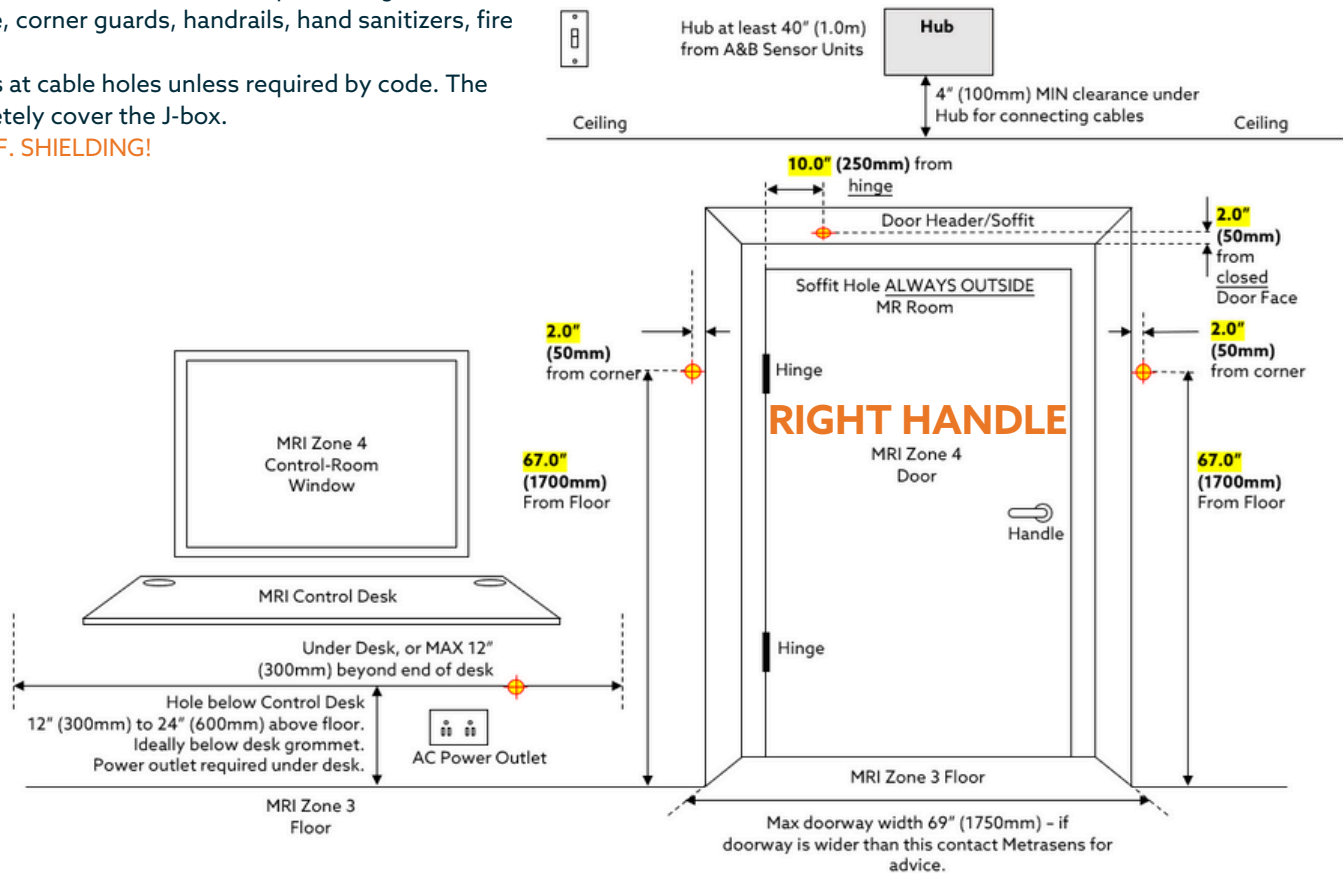
- (1) Ferroguard Assure Hub - Supplied by Metrasens, Installed by Facility/Electrician.
- (2) Isolation Switch (Not supplied by Metrasens, Installed by Facility/Electrician.
- (3) A Sensor Unit*
- (4) B Sensor Unit*
- (5) Reflector*
- (6) Door Sensor (ODAS) **MRISM Adapter PSU*
- (7) MRISM (Touchscreen)*
- (8) MRISM Adapter*
- (9) MRISM Adapter PSU*

*Installed by Metrasens



⚡ = Cable Hole Centers: 3 in wall & 1 in Door Header/Soffit

- ALL holes OUTSIDE MR Room in Zone 3, NOT in Zone 4.
- 1.25" Hole with CONDUIT (flex conduit preferred)
- The conduit must be run from the four holes to just below the Hub. Please terminate the conduit 4"–6" below the Hub.
- Colored cables must be inserted inside each conduit running from the hole to the Hub area. DO NOT CONNECT THE CABLES TO THE HUB.
- Cable holes will be hidden by the sensor units once mounted.
- Flat surfaces are required. There should be no protruding components, signage, corner guards, handrails, hand sanitizers, fire extinguishers, etc.
- Do not use fit J-boxes at cable holes unless required by code. The system won't completely cover the J-box.
- **DO NOT DAMAGE R.F. SHIELDING!**



Cable Routing:

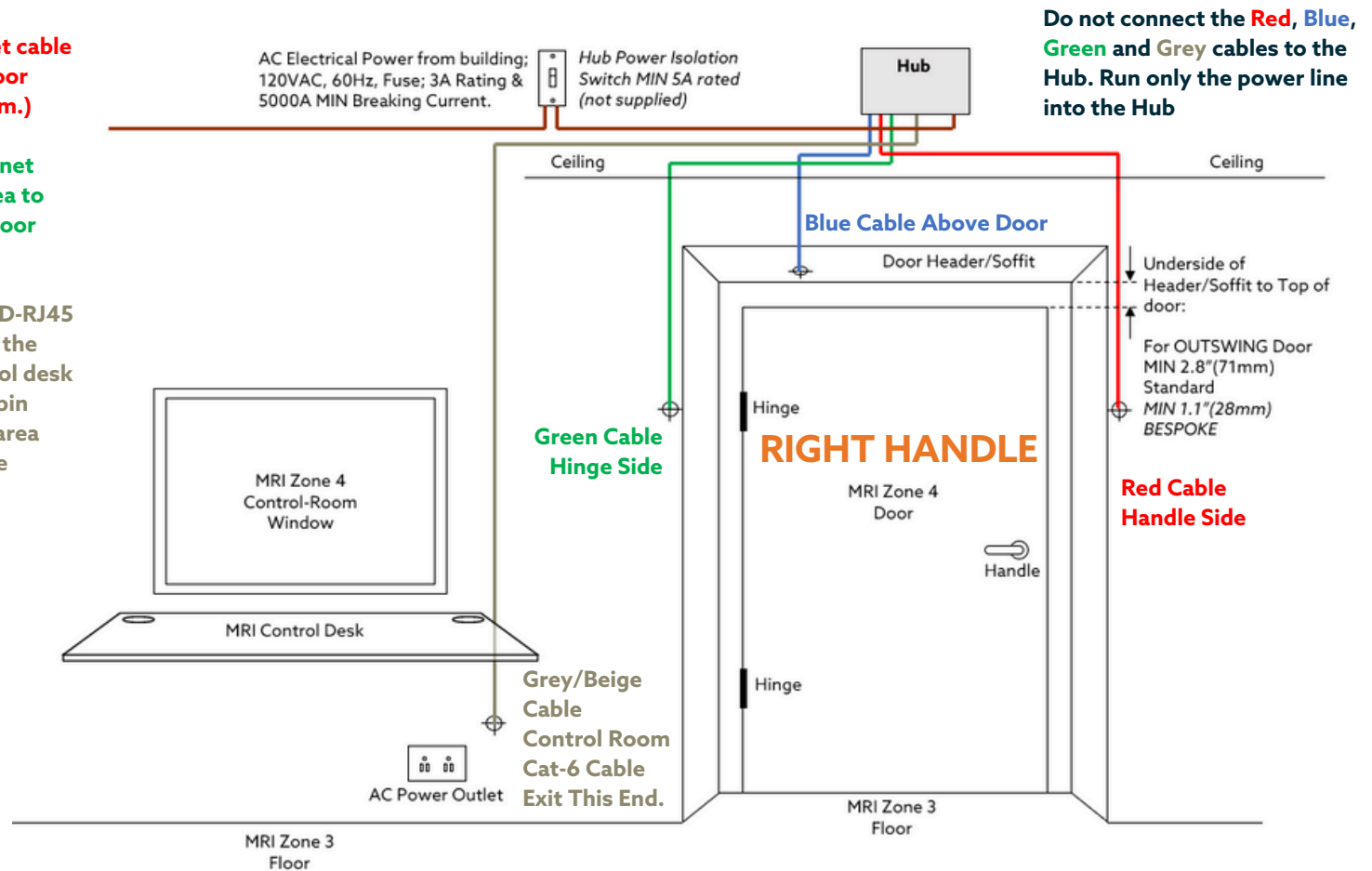
DO NOT CONNECT CABLES TO THE HUB

Install the **Blue Ethernet cable** from the hub area to the underside of the door header/soffit (16'5" or 5m).

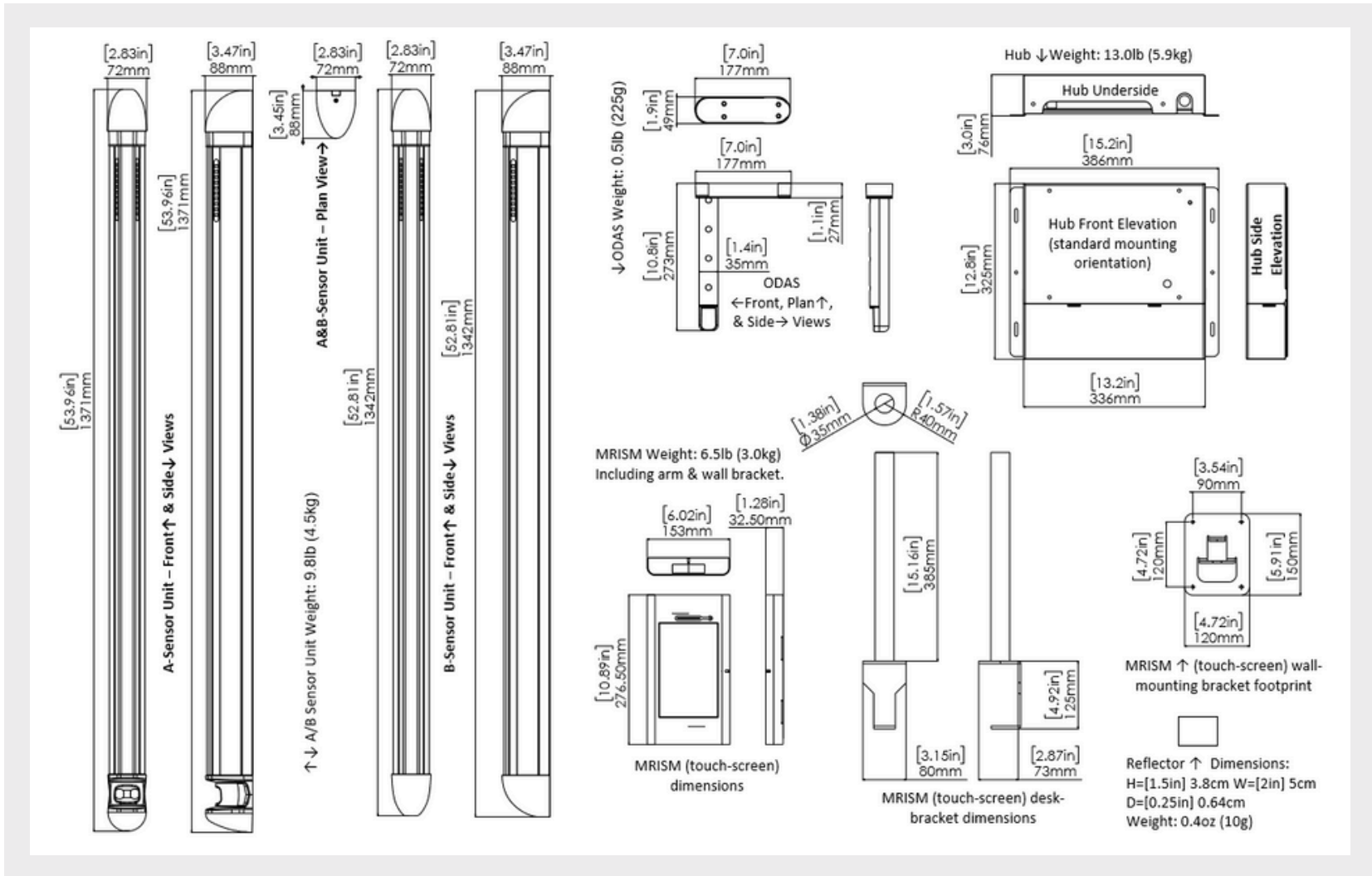
Install the **Red Ethernet cable** from the Hub to the door handle side (16'5" or 5m.)

Install the **Green Ethernet cable** from the Hub area to the hinge-side of the door (16'5" or 5m.)

Install the **Grey/Beige D-RJ45 Cable** from the Hub to the underside of the control desk (65'7" or 20m.) The 9-pin connector to the Hub area and the Ethernet to the underside of the desk.



System Dimensions





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