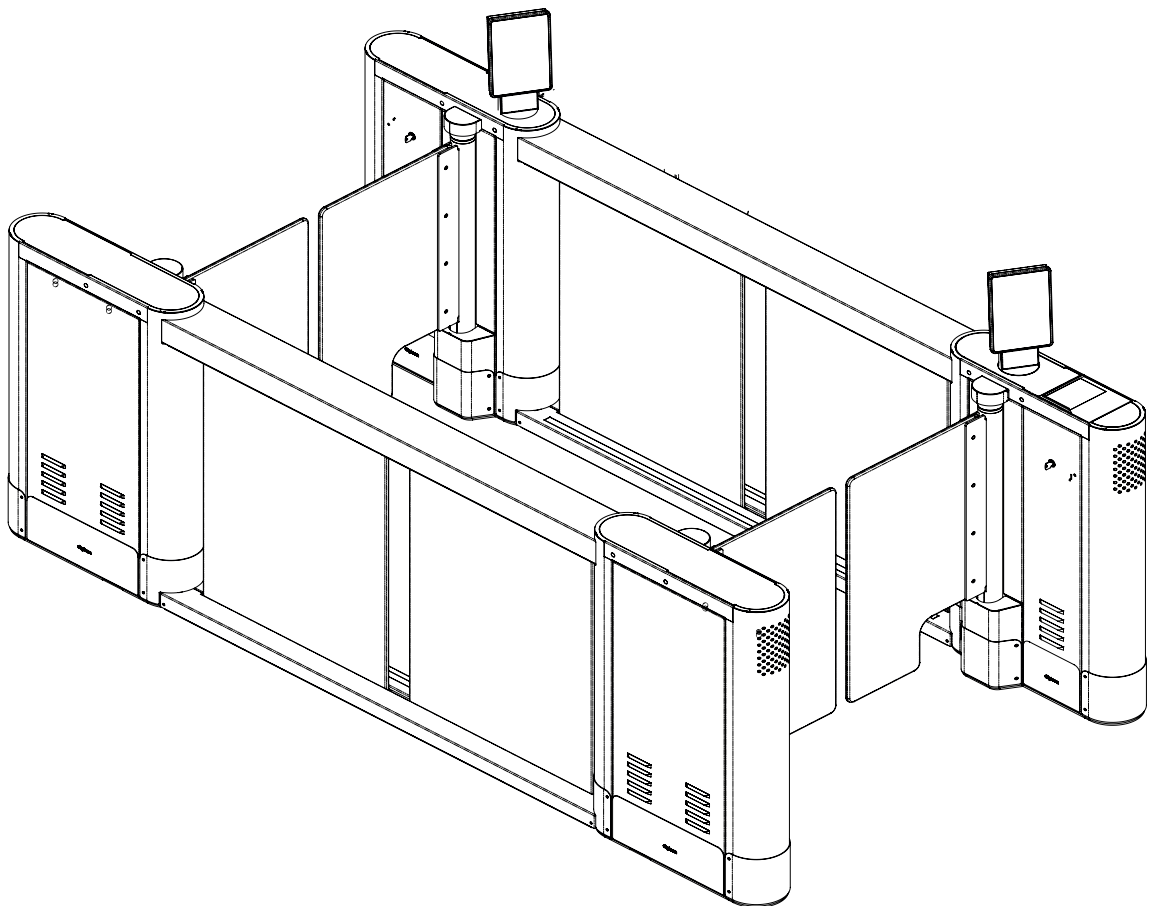




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Documentation Department - EDS

Review	Date	Reviewer	History
01	12/07/2024	• Carlos Alberto • Alexandre Martins • Nicholas Reis	Installation manual

Note: If you wish to obtain the history of all versions of this manual, please contact your representative or Digicon directly.

 **ATTENTION!:** Digicon reserves the right to modify the characteristics of its products at any time to adapt them to the latest technological developments.

 **ATTENTION!:** Digicon reserves the right to change the information contained in this manual without prior notice.

 **ATTENTION!:** After the product's useful life, dispose of it according to the National Waste Policy.

- Disposal should not be in regular waste as it can cause harm to the environment and human health.
- You can send it to one of our addresses in Gravataí/RS or Barueri/SP, or dispose of it at a local selective collection site in your area.

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1. Presentation

The dPass is an access control device developed to meet the needs of airport areas and locations requiring stringent security levels, interacting with users to verify their documents.



2. Security Instructions

2.1 Symbols

You will find the symbols below in the Installation Manual. They indicate important Caution and Warning notices regarding safety, product, operation, and maintenance of the equipment(s).

 **ATTENTION!:** Describes something important that should be known by the **qualified technical professional** and the user

 **CAUTION - RISK OF INJURY/HARM!:** Describes situations of risk that can lead to injury and/or harm.

 **CAUTION - RISK OF DEATH!:** Describes high-risk situations that can lead to death. These cases are related to interaction with the internal parts of the equipment, and it is advisable to use a **qualified technical professional**.

Read and keep the instructions in this manual: Read and keep this Installation Manual for future reference. Carefully read all safety, unpacking, Product, operation, and maintenance instructions before operating this equipment.

Follow the instructions and heed the caution and warning notices: Follow all installation, operation, and maintenance instructions. Pay attention to all caution, care, and precautionary warnings in the operating instructions, as well as those affixed to this equipment. Caution and care warnings are essential for the protection of the user and qualified technical professional, as well as for the longevity of equipment use.

2.2 Terminology

The terms defined below are used in this document. The definitions provided are based on those found in safety standards:

Qualified Technical Professional: The term **Qualified Technical Professional** applies to individuals trained and certified by Digicon who are authorized to install, replace, or provide technical support for their equipment. It is recommended that the qualified technical professional use their experience, technical skills, and best practices to prevent potential injuries to themselves and others in restricted access areas. This approach should be taken to mitigate risks and also to extend the equipment's lifespan.

 **ATTENTION!** Installation and/or maintenance provided by a non-qualified technician may void the equipment's warranty terms.

User: The term "user" applies to individuals who are not qualified technical professionals and use the equipment.

2.3 Risks

The safety information and warnings provided below are intended to protect you from injury and prevent damage to the equipment.

Children and individuals needing assistance may be unable to assess the risks associated with using the equipment, which could result in injury or life-threatening situations. Special attention should also be given to animals near the equipment.

Below we will mention risks that should be noted in various situations;

2.3.1 Risk of unpacking the equipment:



ATTENTION!:

- Always use the appropriate tools.
- Always use the necessary PPE (Personal Protective Equipment) such as gloves, safety shoes, and goggles for protection.



CAUTION - RISK OF INJURY/HARM!

- Caution when handling equipment packaging, as it is made of wood and may splinter.
- The packaging is heavy; take care to prevent it from tipping over, as it could cause injuries and damage to the equipment.
- The packaging construction involves thin steel blades that can cause cuts and injuries.
- Be careful when removing the lid of the packaging, as it may fall and cause injuries or damage to the equipment.
- To remove the screws securing the equipment to the base of the packaging, the glass side doors must be removed. Handle them carefully and place them in a secure location.
- Be cautious with your hands and feet when removing the equipment from the base of the packaging and positioning it in the installation area.

2.3.2 Risks during equipment installation:



ATTENTION!:

- All installation steps must be performed by a qualified technical professional using appropriate tools and PPE (Personal Protective Equipment). Before connecting the electrical power, conduct a detailed inspection of the installation. Always perform handling/installation tasks with two people. Overweight items may cause damage or injury.

 CAUTION - RISK OF INJURY/HARM!:

- Be careful when positioning this equipment at the installation site, as its size and weight can cause injuries.
- During the initial operation phase, the doors may move. Keep the passage area clear to prevent them from colliding with objects and people.
- Risk of falling during sensor installation.

 CAUTION - RISK OF DEATH!:

- This equipment operates with dangerous electrical voltages. To prevent the risk of electric shock, installation must be carried out exclusively by a qualified technical professional.
- Before proceeding with any procedure, make sure that the electrical power is turned off.

2.3.3 Risks during equipment use:

 CAUTION - RISK OF INJURY/HARM!

- Caution, this is an access control equipment, the doors may close in certain situations. The impact of the doors with the human body can cause bruises and even fractures.

 CAUTION - RISK OF DEATH!:

- Children and individuals needing assistance should be constantly supervised, as they may be unable to assess the risks associated with using the equipment, which could lead to injury or life-threatening situations.

2.3.4 Risks during equipment maintenance



ATTENTION!:

- All maintenance steps must be performed by a qualified technical professional using appropriate tools and PPE (Personal Protective Equipment).



CAUTION - RISK OF INJURY/HARM!:

- Be careful with your hands and fingers during the maintenance process, as the door movement mechanisms can cause serious injuries.



CAUTION - RISK OF DEATH!:

- The equipment has several glass parts. Always wear protective glasses.
- Before carrying out any procedure, make sure that the electrical power is turned off.
- Failure to comply with the above recommendations can result in serious injuries and risk of death.

2.3.5 Risks during equipment cleaning process!:



ATTENTION!:

- Use the necessary PPE (Personal Protective Equipment) such as gloves and protective goggles throughout the cleaning process.



CAUTION - RISK OF INJURY/HARM!:

- Be cautious during the cleaning process, as the doors may close in certain situations. The impact of the doors with the human body can cause bruises and even fractures.

3. Guidelines

Carefully read the information before using the product; this will ensure the correct use of the equipment and maximize its technical features, as well as prolong its lifespan. This product is not rainproof, meaning it is designed for indoor use. This product is not designed to withstand direct sunlight. Keep this manual for future reference. Digicon reserves the right to modify the characteristics of its products at any time to adapt them to the latest technological developments. Digicon reserves the right to alter the information contained in this manual without prior notice. Digicon does not provide any contractual guarantee regarding the information contained in this manual and shall not be held responsible for errors it may contain or problems caused by its use. The information contained in this manual is the exclusive property of Digicon and is protected by copyright law. This manual may not be reproduced, photocopied, or translated, in whole or in part, in any type of media, without written authorization from Digicon. The equipment described in this manual is customizable, meaning all possible models are described in this manual and do not necessarily reflect the equipment purchased by the customer.

4. Environmental considerations.

The materials used to package the product are easy to separate (screws, bubble wrap, wood, cardboard), making proper disposal of the items more accessible. The dPass equipment contains recyclable and/or reusable materials in its construction. In cases of parts or component replacements, seek specialized services for item separation. When disposing of the equipment, ensure it is done according to the local regulations in force.

5. Complementary Manuals.

Beyond this manual, we have three additional documents:

- Integrator's Manual
- Support and Maintenance Manual
- Product Manual

6. Responsibilities.

6.1 Digicon.

Digicon will provide:

- Tested and approved equipment;
- All necessary documentation to install, operate, and integrate the dPass access controllers, including the installation compliance checklist;
- Initialization, adjustments, updates, calibrations, and testing of the dPass access controllers;
- Technical assistance before, during, and after installation;
- Technical training during the installation of the first dPass access controllers and technical assistance in subsequent installations if required.

6.2 Customer.

The customer must provide:

- Completed checklist of installation requirements compliance provided to Digicon prior to technician's departure.
- Installation site clean, organized, and safe.
- Infrastructure executed according to provided instructions.
- Prompt communication with Digicon in case of any discrepancy or failure to comply with installation instructions to mitigate the issue or reschedule installation promptly.
- Temporary independent electric power (AC 100v ~ 240v) during installation for tools and notebook.

- All anchoring components, whether chemical or mechanical (rebar, anchors, washers, chemical ampoules, etc.), as well as labor and tools for anchoring installation such as hammer drill, drills, and wrenches.
- AC electrical power on a dedicated circuit for dPass access controllers as per the specifications detailed later in this document. Leave an excess of 1.9 meters for cables under the floor (equipment cabinets)
- VPN connection to ensure dPass access controllers remain updated and enable quick diagnosis in case of failures.

6.3 Integrator.

The integrator must provide:

- Qualified technical team for installation, operation, and maintenance training of dPass access controllers. General electronics technical training and assistant technician qualifications are minimum requirements.
- All information, documentation, personnel, tools, and materials necessary to integrate the access control system with dPass.
- Technical assistance during equipment installation and testing.

7.Schedule.

Installation date to be determined by the customer.

A minimum of 2 days is required for installation and training.

8. Checklist Completion Guide.

- This form should be reviewed by architects, builders, and installers so they can prepare the installation site in the best way to optimize the installation process.
- Digicon will only assign an accredited installer after receiving this fully completed form.
- It must be filled out in “CAPITAL LETTERS” in a legible manner.
- The checklist must be fully completed and signed by the inspector. If the item meets the specifications of this document, mark it with “OK” in the designated field. If the item does not meet the specifications, mark it with “NOK” (Not OK). For items marked “NOK,” provide comments or suggestions for changes, justifying why they do not meet the specifications. All items marked “NOK,” along with comments and/or suggestions, must be evaluated by Digicon.
- The Customer/Integrator/Inspector must follow the guidelines of this document as a reference in the planning and execution of the infrastructure.

8.1 Installation site information.

Date: Date and time of inspection

Customer/Integrator: Customer/Integrator name

Installation Site: Enter details of the installation location. Include complete address, condominium name, floor, access name, etc.

Inspector: Inspector’s name

Signature: Inspector’s signature

Company: Inspector’s company name

8.2 Infrastructure Checklist Items.

The inspector must mark “OK” or “NOK” in the respective column. If an item is marked “OK,” it is considered suitable for dPass installation. If during the installation process an item is found not to meet the required specifications, marked “NOK,” installation may be halted, and the Integrator may request reimbursement for any additional work or downtime. The inspector should comment on any specification discrepancies or suggest an action plan to mitigate the issue in the “Comments and Action Plan” column so that the item can be reconsidered as “OK.”

9. Installation Requirements.

All items mentioned below are the sole responsibility of the Customer/Integrator.

9.1 Installation site.

9.1.1 Solar Light:

The installation site should not receive direct sunlight.

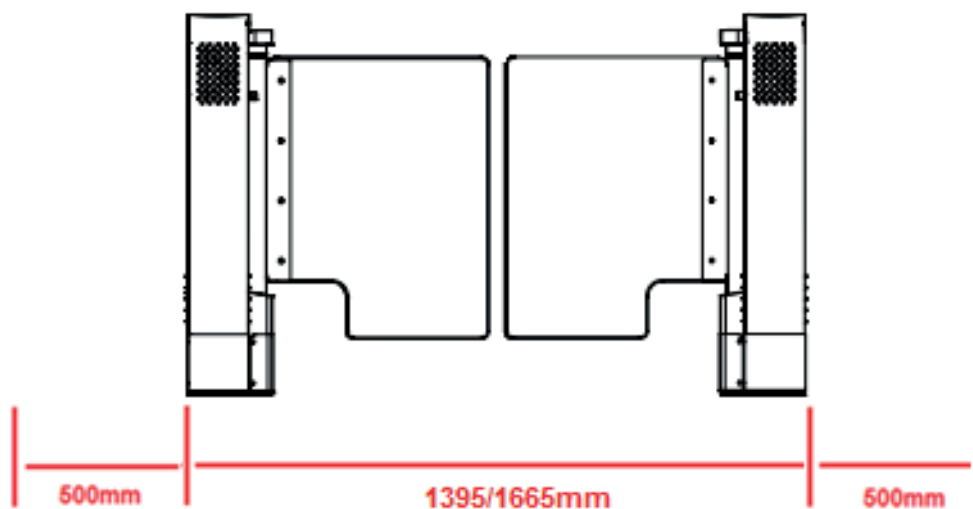
9.1.2 Open Environment:

The installation site must be covered, as the equipment is not waterproof.

9.1.3 Minimum Width:

dPass has configurable alternatives for door measurements. Therefore, the minimum width to install a single controller (2 cabinets/1 passage) will depend on its configuration.

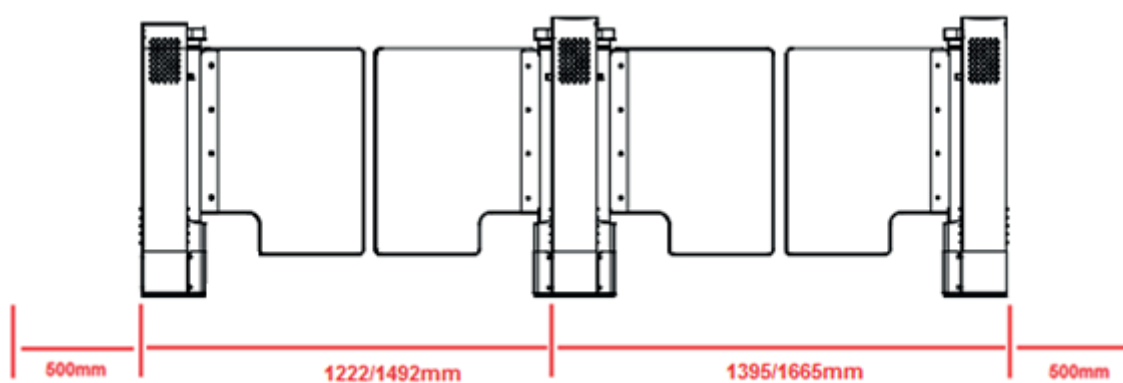
Model	Minimum Width
930	2395mm
1200	2665mm



9.1.4 Minimum Side-by-Side Width:

For an additional side-by-side passage, it will also be calculated considering the model of dPass to be installed, adding the following values to the minimum width of a passage.

Model	Minimum Width
930	1222mm
1200	1492mm



9.1.5 Packaging/Boxes:

After delivery, the equipment should be placed as close as possible to the installation site, or consideration should be given to the effort required to transport them to the installation site before the technician arrives.

9.2 Positioning of modules.

9.2.1 Alignment:

The cabinets must be aligned according to the architecture and tactile paving (for visually impaired individuals). Ensure the chosen position allows for sensor installation and respects the required maintenance area.

⚠ ATTENTION!: dPass cabinets do not have any side access for cables. All cables and conduits must be under the floor in the positions indicated in this document.

9.3 Sensor Positioning

9.3.1 Stable Structure:

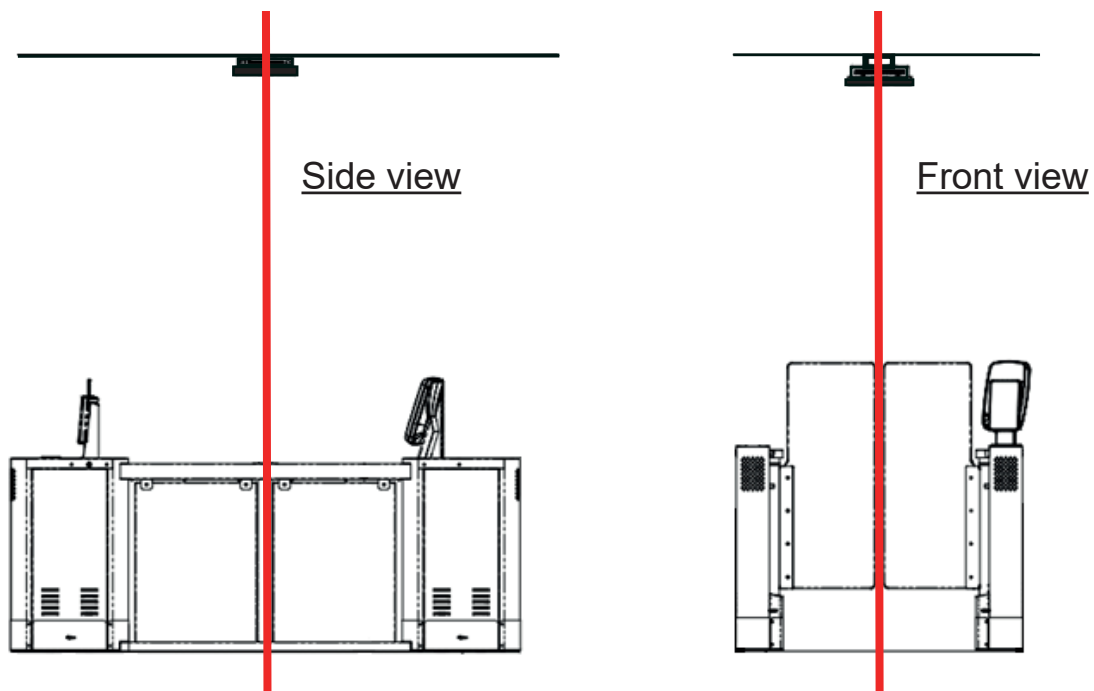
The sensor must be installed directly on the ceiling, slab, or another structure that prevents sway or vibrations. Provide for fixing and cable entry.

9.3.2 Parallelism:

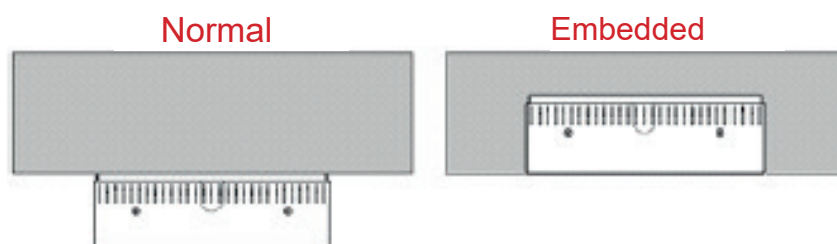
The installation surface where the sensor will be installed must be parallel to the surface where the dPass cabinets will be mounted.

9.3.3 Centering:

The center of the sensor must align with the center of the passage on both axes.

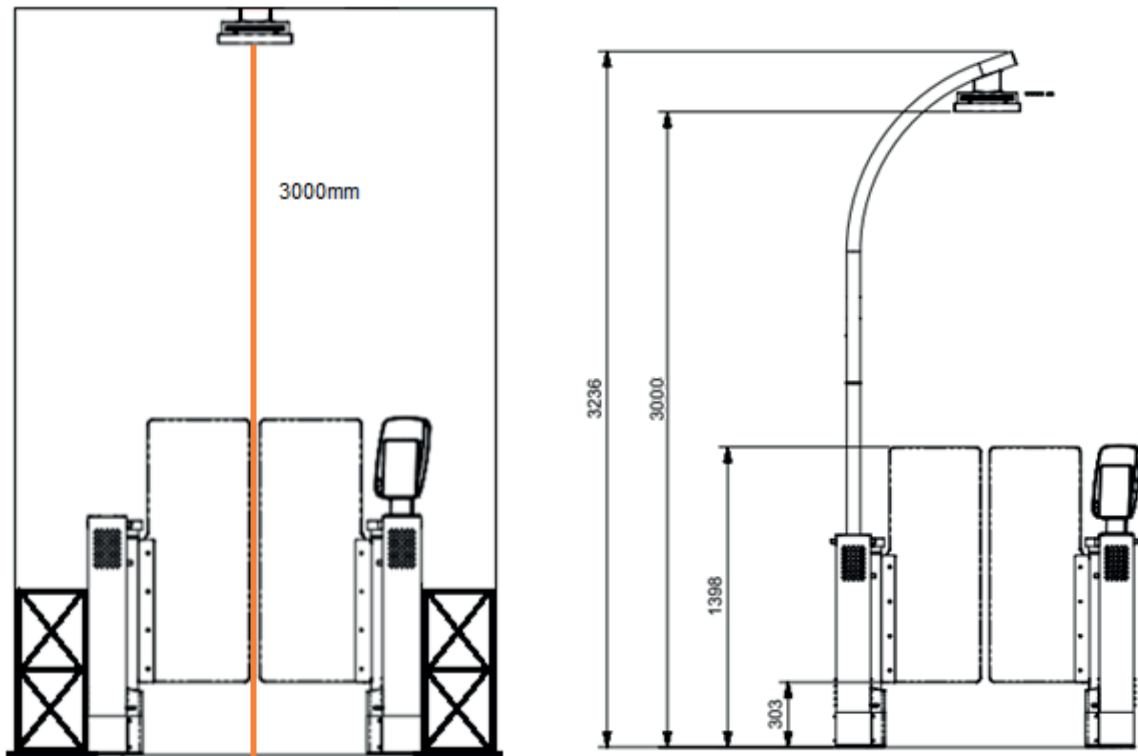


⚠ ATTENTION!: If the sensor is installed in a recessed manner, air intake for internal cooling and strategic access points for maintenance are required.

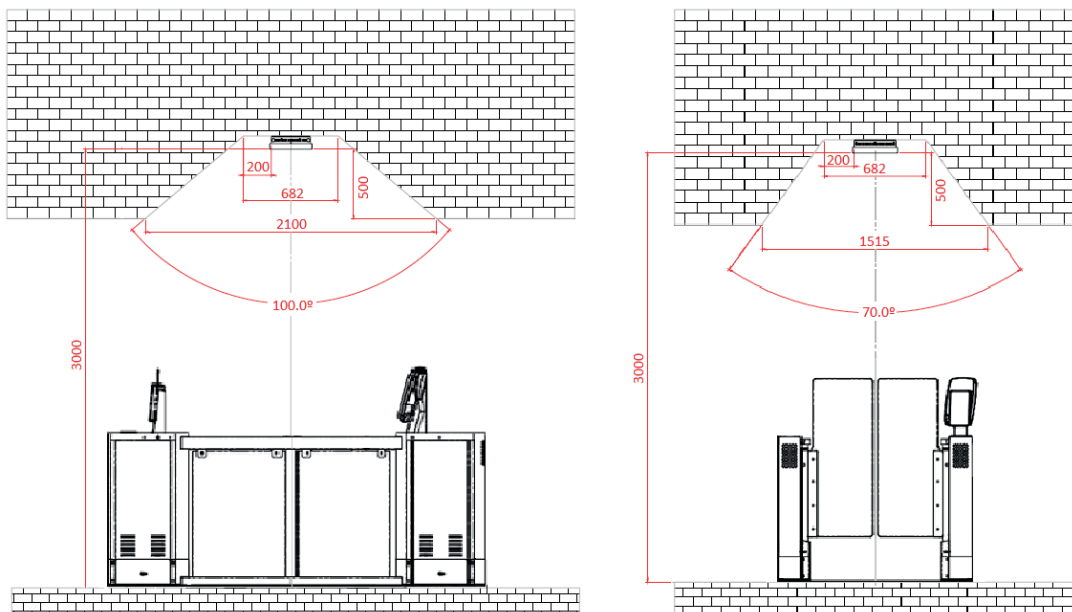


9.3.4 Height:

For proper dPass functionality, the sensor must be installed at a minimum height of 3000mm and maximum of 3500mm.



In locations with a dropped ceiling, an opening like in the next image should be maintained.



9.4 Floor and Subfloor

9.4.1. Concrete Specifications:

The minimum thickness and strength of the slab concrete must be respected. These parameters depend on the chosen anchoring system. Digicon recommends the HILTI chemical anchoring system. However, other types of anchoring may also be used.

Concrete Specifications for Recommended Chemical Anchoring System:

- Thickness: 140 mm
- Compressive Strength: 15 N/mm²

9.5 Floor Fixation

9.5.1 Digicon Recommendation:

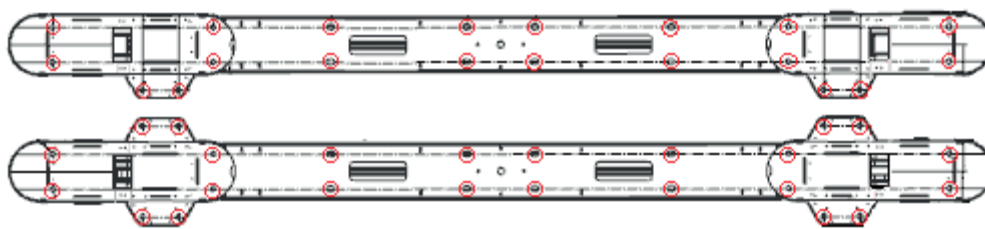
Following the recommendation, stainless steel threaded rods of 3/8" or M10 with a total length of 110mm will be required. These rods should be anchored into the concrete using HILTI HIT 500 chemical injection or HILTI HVU M10x90 (3/8" x 3 1/2") individual capsules. The drilled hole for chemical anchoring should be 12x90mm (1/2" x 3 1/2"). For any additional information, please contact the manufacturer HILTI.

9.5.2 Quantity:

- 20 stainless steel threaded rods, 3/8" or M10, with a length of 110mm..
- 20 stainless steel nuts, 3/8" or M10.
- stainless steel washers, 3/8" or M10.

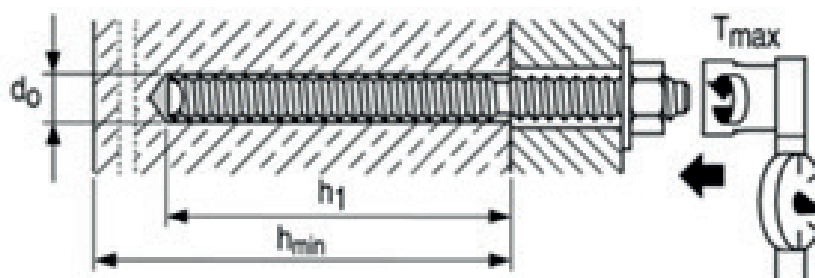
For each RT cabinet of dPass, the following will be required:

- 24 stainless steel threaded rods, 3/8" or M10, with a length of 110mm.
- 24 stainless steel nuts, 3/8" or M10.
- 24 stainless steel washers, 3/8" or M10.



○ Mounting points

Specifications Haste	In. (mm)	3/8 (9,5)	M10
d₀ 	In. (mm)	7/16 (11)	1/2 (12)
h₁	In. (mm)	3 1/2 (90)	3 1/2 (90)
h_{min.}	In. (mm)	5 1/2 (140)	5 1/2 (140)
T_{max.}	Ft lb (mm)	18 (24)	15 (20)



9.6 Routing cables to the modules.

9.6.1 Conduits lines:

Four conduit lines must be installed under the floor. They can be PVC or aluminum to prevent corrosion and must comply with local electrical standards.

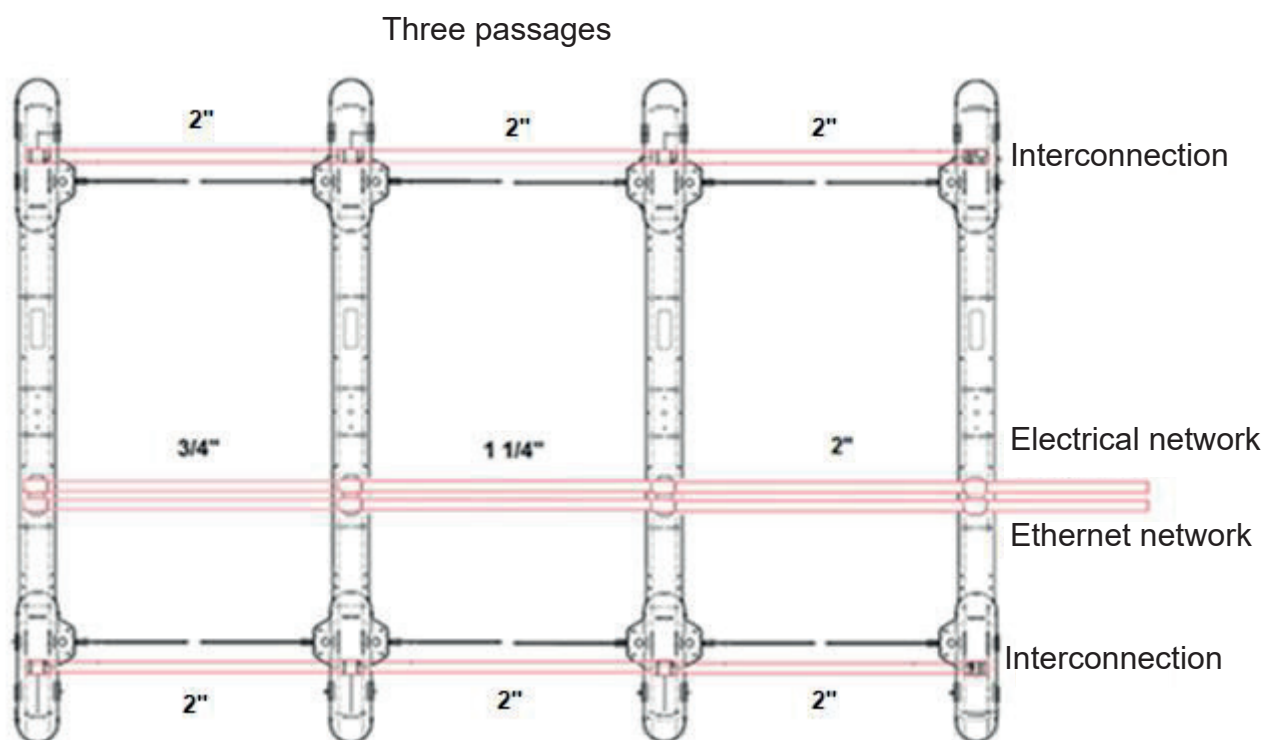
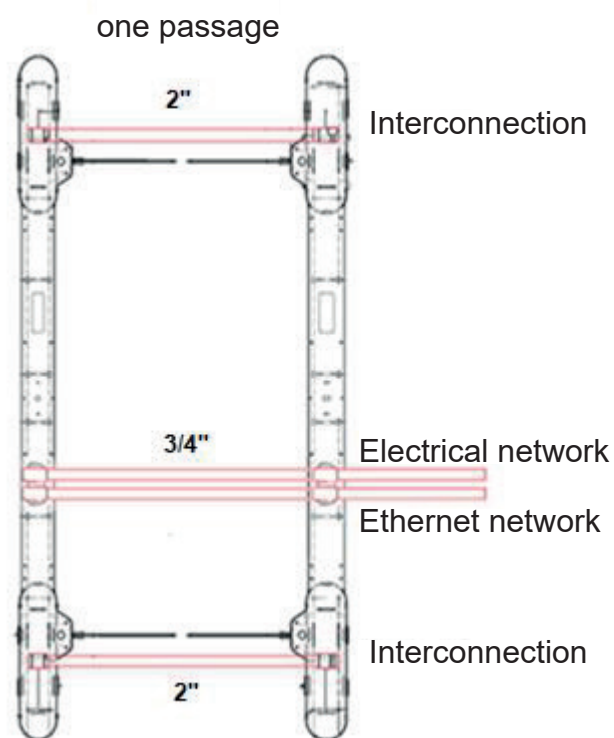
9.6.2 Individual lines:

Each conduit line serves a specific purpose, divided as follows: electrical network cables, network cables (for data), and interconnection between modules.

9.6.3 Conduit Diameter:

The conduit diameter is $\frac{3}{4}$ inch for the interconnection passage. The conduit diameter for the electrical and network cables should be sized according to the table below.

Application	Diameter for the first passage	Additional diameter for each passage in line
Electrical Network	3/4"	1/2"
Logical Network	3/4"	1/2"
Interconnection	2"	No change

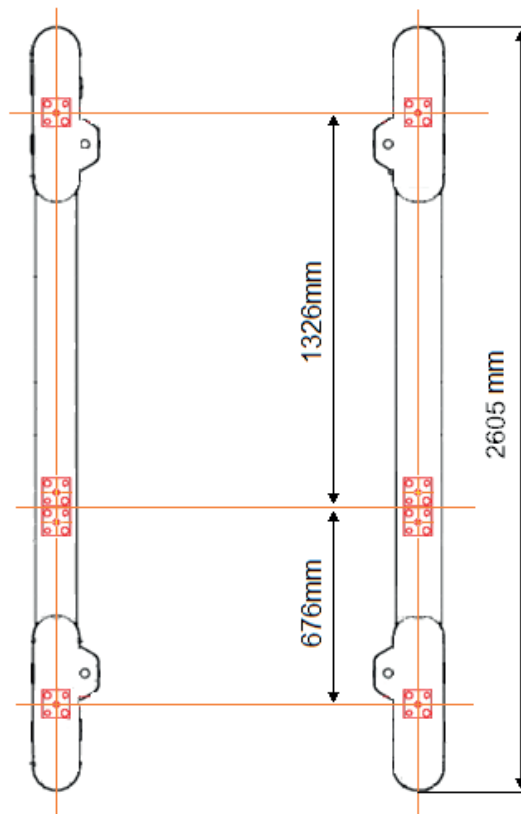


9.6.4 Junction Boxes:

For each conduit line installed, a 4"x4" junction box should be provided below each module. These boxes can be made of PVC or aluminum to prevent corrosion.

9.6.5 Junction Box Position:

The positions must align with the drawing below.



9.7 Cable Routing for the Sensor

9.7.1 Conduit Line:

At least two conduit lines must be installed between the modules and the sensor, made of PVC or aluminum to prevent corrosion, and they must comply with local standards.

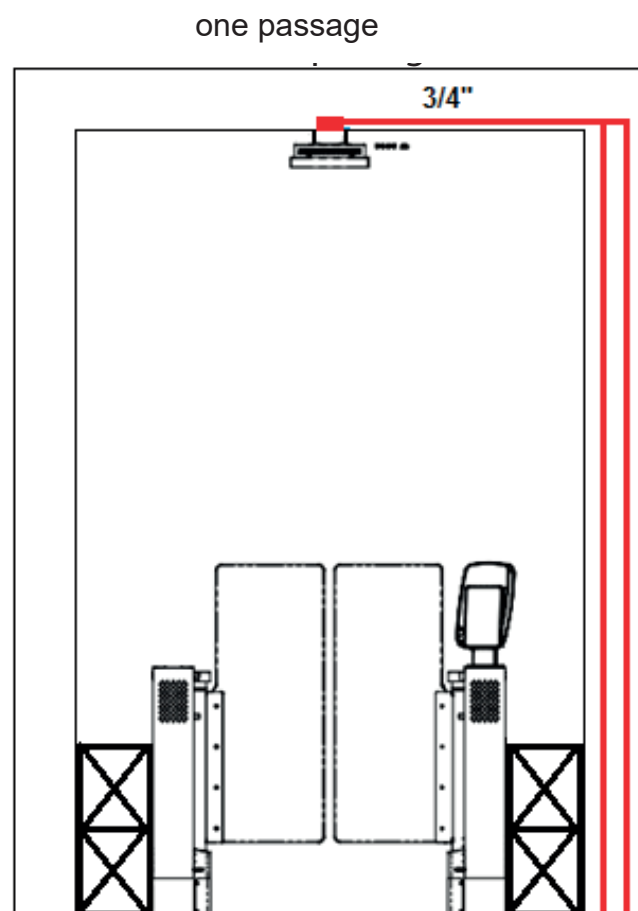
9.7.2 Interconnection between dPass and Sensor:

Each conduit line serves a specific purpose, divided as follows: electrical network cables and logical network cables.

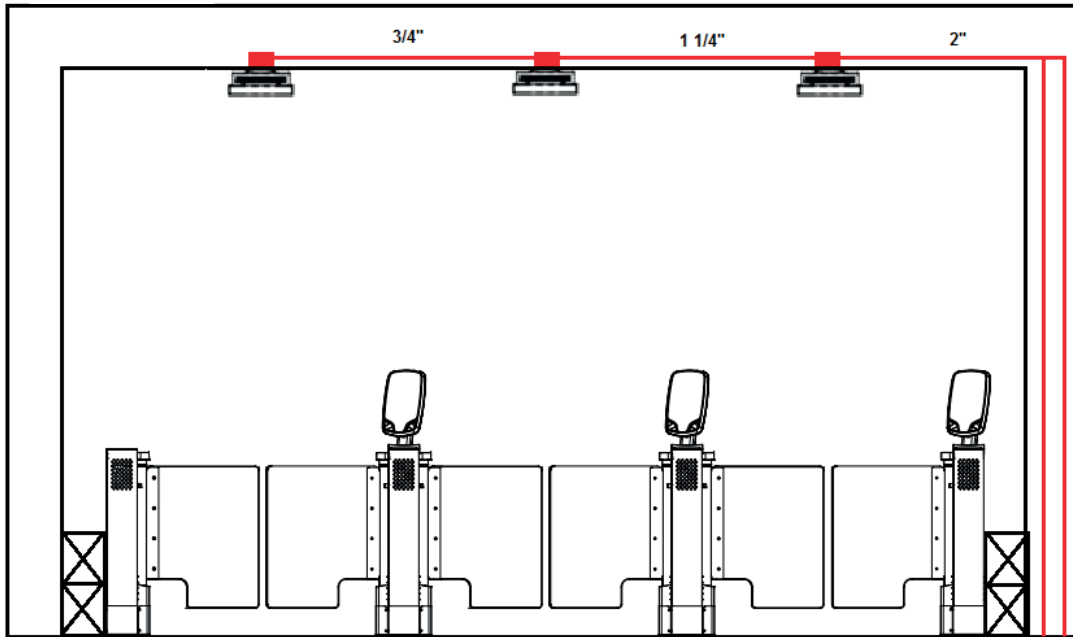
9.7.3 Conduit Diameter:

The diameter should be sized according to the table below:

Application	Diameter for the first passage	Additional diameter for each inline passage
Electrical Network	3/4"	1/2"
Logical Network	3/4"	1/2"



Three passages

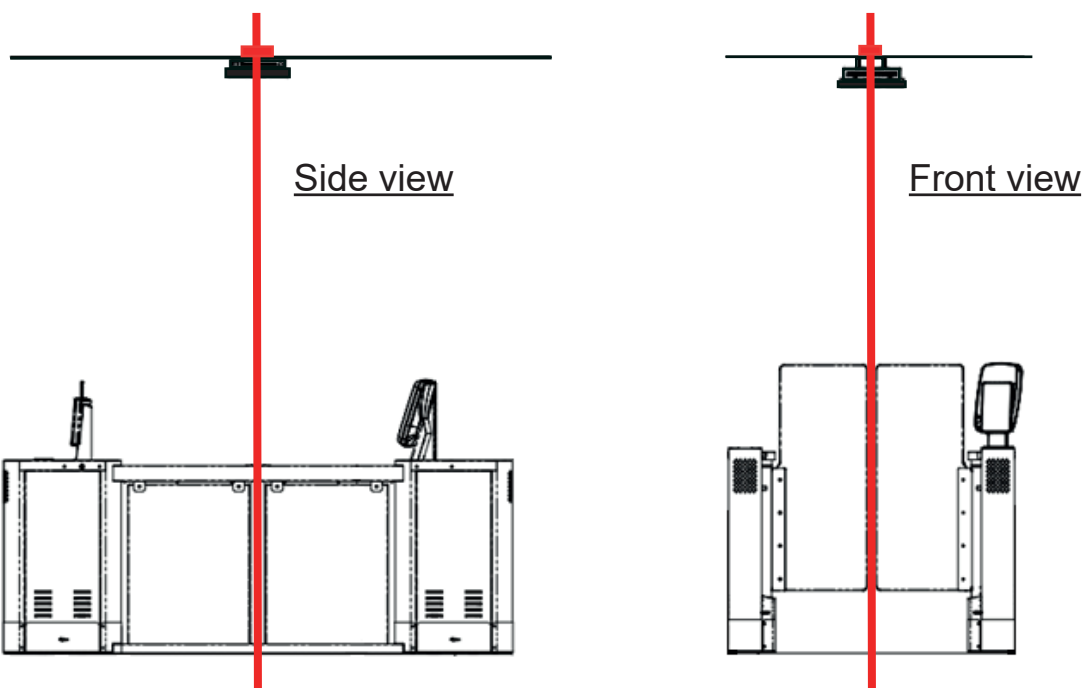


9.7.4 Junction Boxes:

For each installed sensor, a 4"x4" junction box should be provided above each sensor for cable routing. These boxes can be made of PVC or aluminum to prevent corrosion and must comply with local electrical standards.

9.7.5 Junction Box Position:

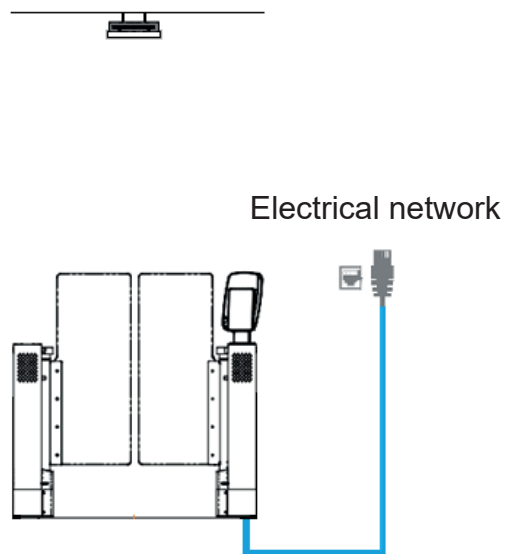
The positions of the junction boxes must adhere to the parameters in the drawing below.



9.8 Wiring for Equipment's Logical Network.

9.8.1 Individuality:

For each dPass, there should be 1 Ethernet cable (UTP) connected to a local network switch.

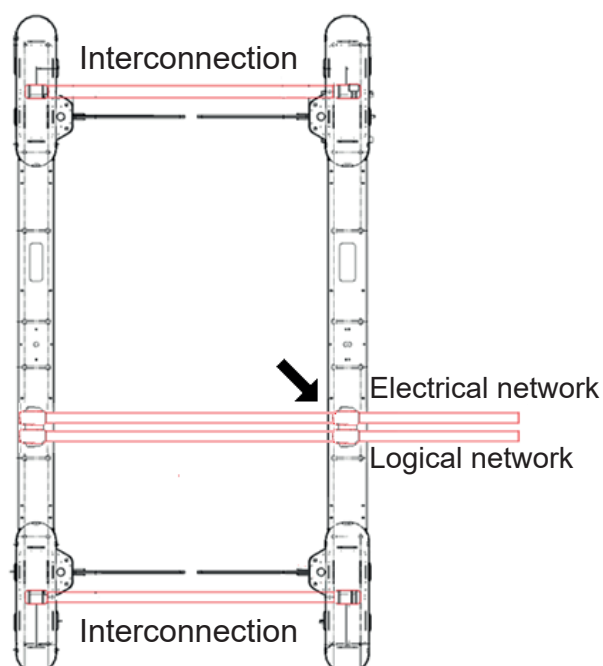


9.8.2 Cable Category:

The cable must be either Cat5e or Cat6.

9.8.3 Entry Position:

This cable should be available in the junction box on the right side of the entry direction.



9.8.4 Excess Cable:

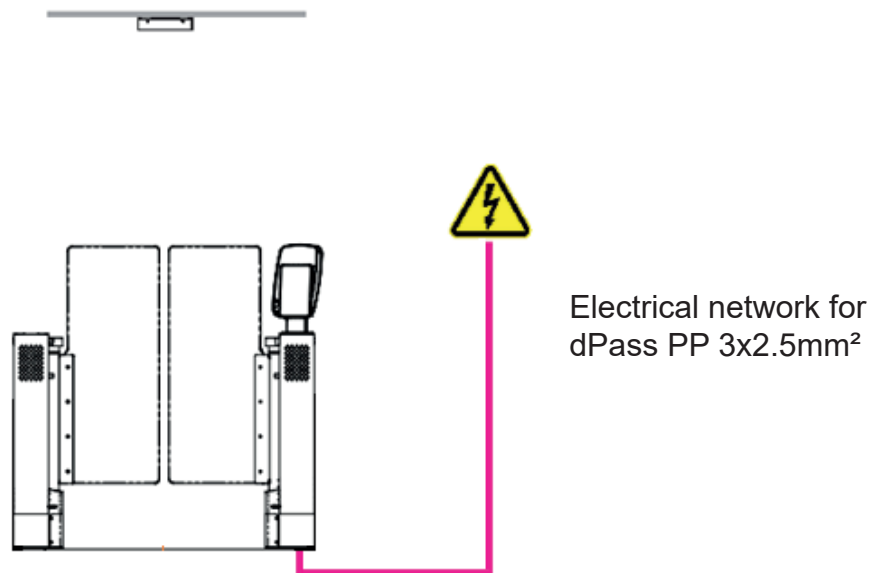
Leave 1900 mm of excess cable with an RJ45 connector.

9.8.5 IP Address:

The Client/Integrator must provide an IP address for each dPass.

9.9 Wiring for Equipment's Electrical Network.**9.9.1 Individuality:**

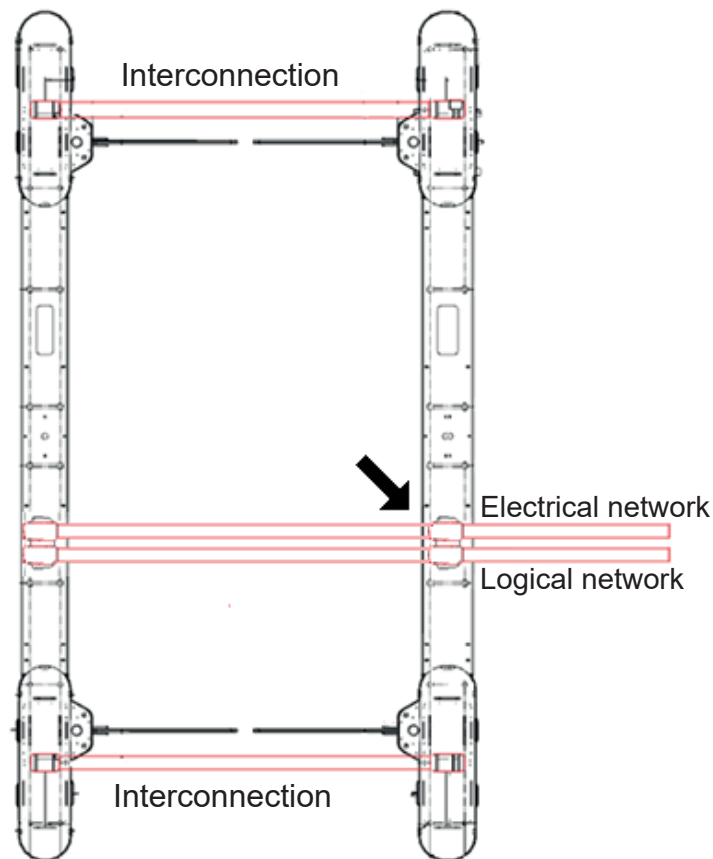
For each dPass, there should be 1 power supply from the electrical network connected to a local electrical panel.

**9.9.2 Cable Specification:**

This cable must be flexible and of the PP type with 3 conductors (2P + T), or single wires of 14AWG or 2.5mm², and must comply with local electrical standards.

9.9.3 Entry Position:

This cable should be available in the junction box on the right side of the entry direction.



9.9.4 Excess Cable:

From the junction box, leave 1900 mm of cable for connection to the equipment.

9.9.5 Sizing:

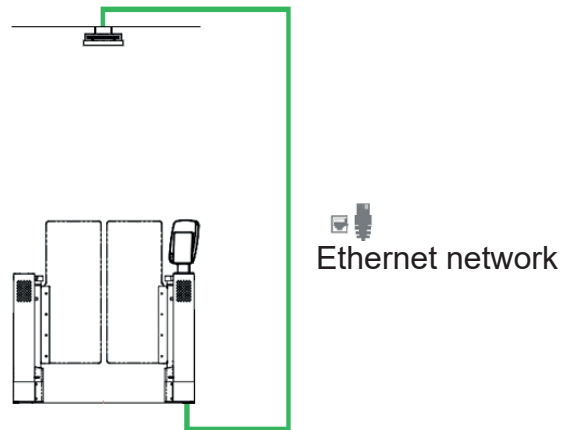
Each dPass access controller consumes a maximum of 420 Watts.

⚠ ATTENTION: All materials and components necessary for the external electrical connections of the dPass, such as circuit breakers, cables, connectors, distribution boxes, grounding, and any other materials or equipment, are the sole responsibility of the Client/Integrator and must comply with local electrical standards.

9.10 Wiring for Sensor's Logical Network.

9.10.1. Individuality:

Between each dPass and its respective sensor, there should be an Ethernet cable (without splices) making the connection.

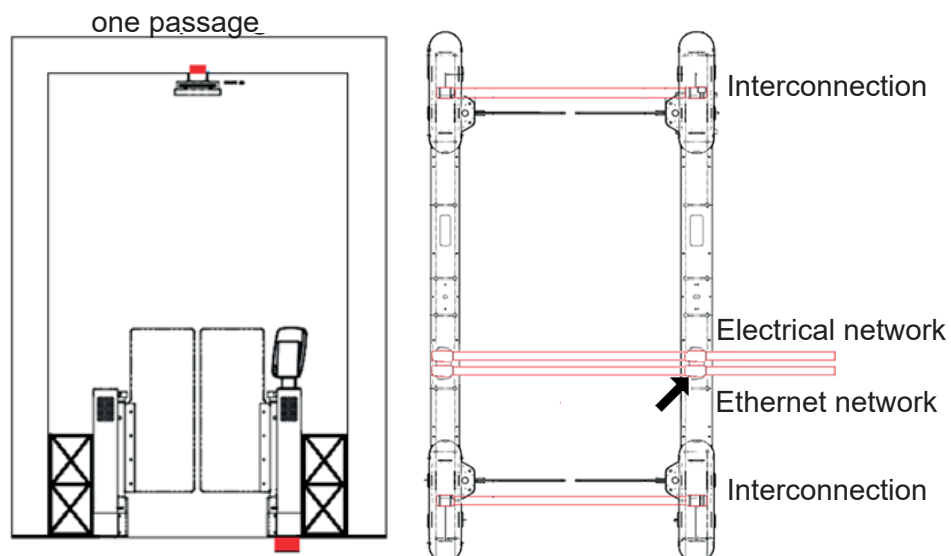


9.10.2 Cable Category:

The Ethernet cable must be Cat5e or Cat6.

9.10.3 Output Position:

The cable should be available in the junction box corresponding to the logical network line, always on the right side of the passage and in the box for the sensor.



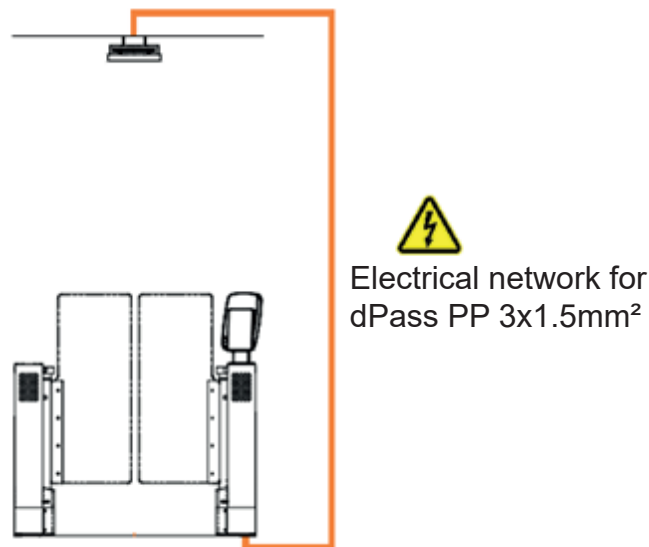
9.10.4 Length of conduit:

Leave 1700mm of crimped cable with RJ45 connector from the junction box for connection to the equipment.

9.11 Electrical Wiring for the Sensor.

9.11.1 Individuality:

Between each dPass and its respective sensor, there should be an electrical network cable connecting them.

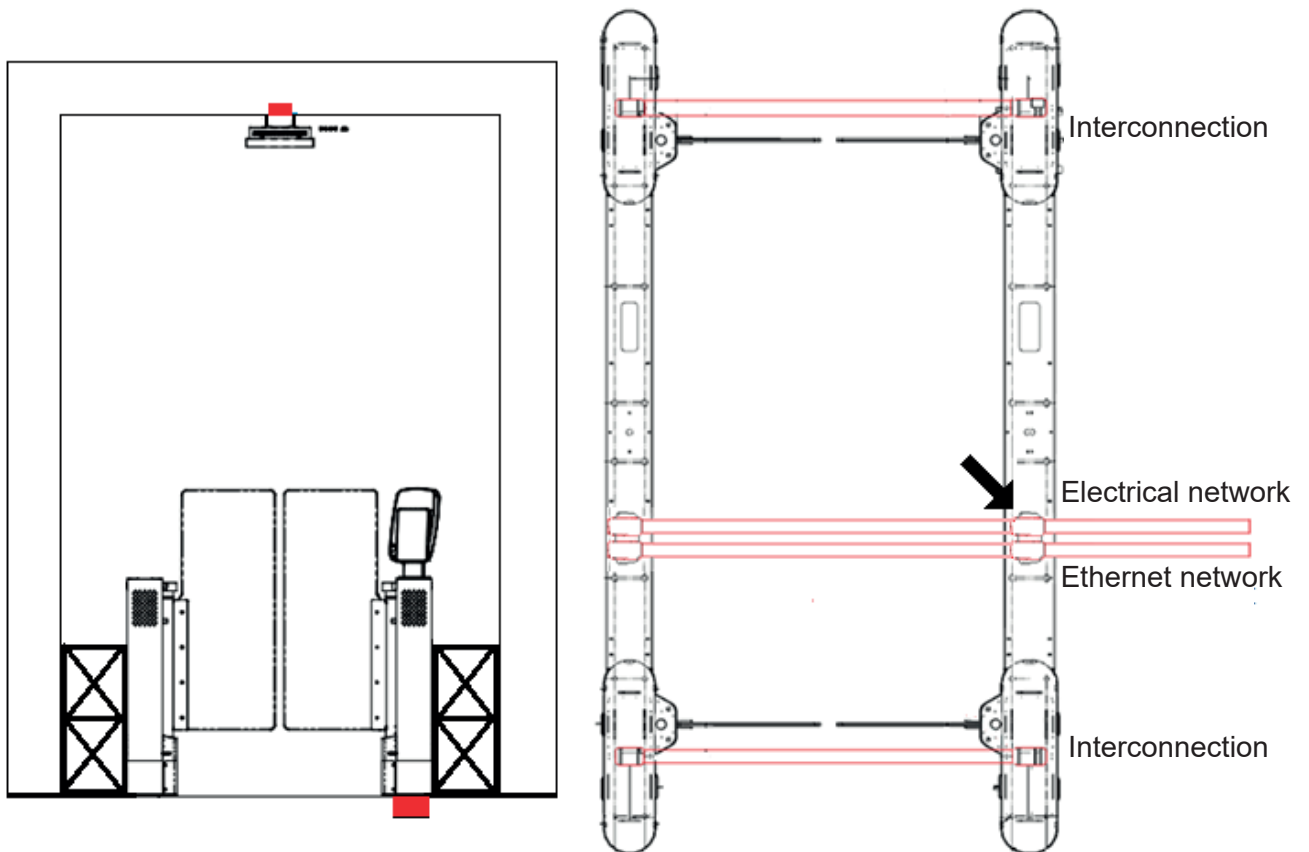


9.11.2 Cable Specification:

It must be flexible and of the type PP 3x1.5mm² or single cables (2P+T) of 1.5mm² (15AWG).

9.11.3 Exit position:

The cable must be available in the junction box corresponding to the power line, always on the right-hand side of the passage.



9.11.4 Length of conduit:

From each junction box, leave 1700mm of cable for connection to the equipment.

9.12 Specifications:

9.12.1 IP (Internet Protocol):

The client/integrator must provide an IP address for each dPass equipment.

9.12.2 Power Supply:

O equipamento dPass deve ser alimentado de acordo com a especificação: 100-240V ~ -50/60Hz.

9.13 Installation Evidence

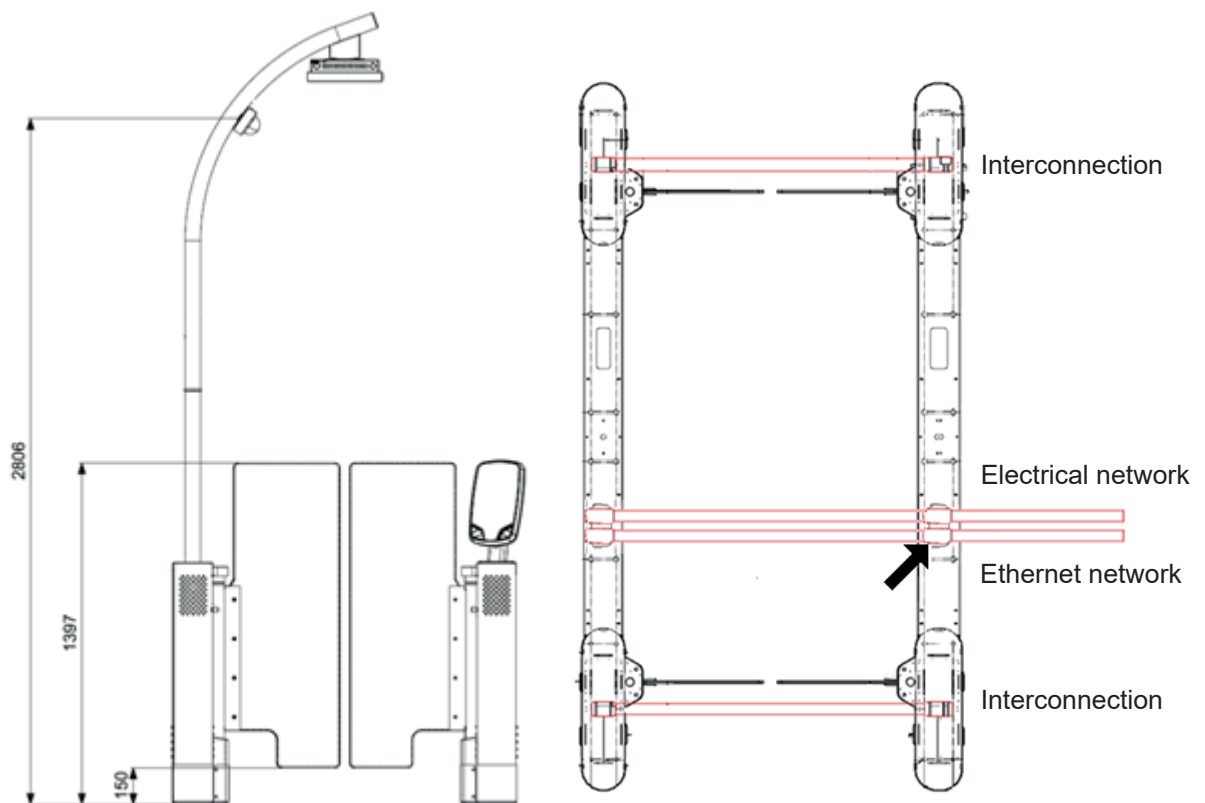
Evidence must be provided to show that all installation requirements have been properly met. These proofs should be sent in the form of photos or videos for the installation supervisor to review and authorize the technician's departure.

10. CCTV Camera

The dPass has an optional CCTV camera, which can be configured in two ways:

- a)** Installed alongside the equipment on a pole, also configurable. In this configuration, only a single network input from the structure is required for camera integration.
- b)** Installed on the ceiling. When the camera is installed on the ceiling, integration is the responsibility of the Client/Integrator. This requires a single network input from the structure and a network output for PoE connection.

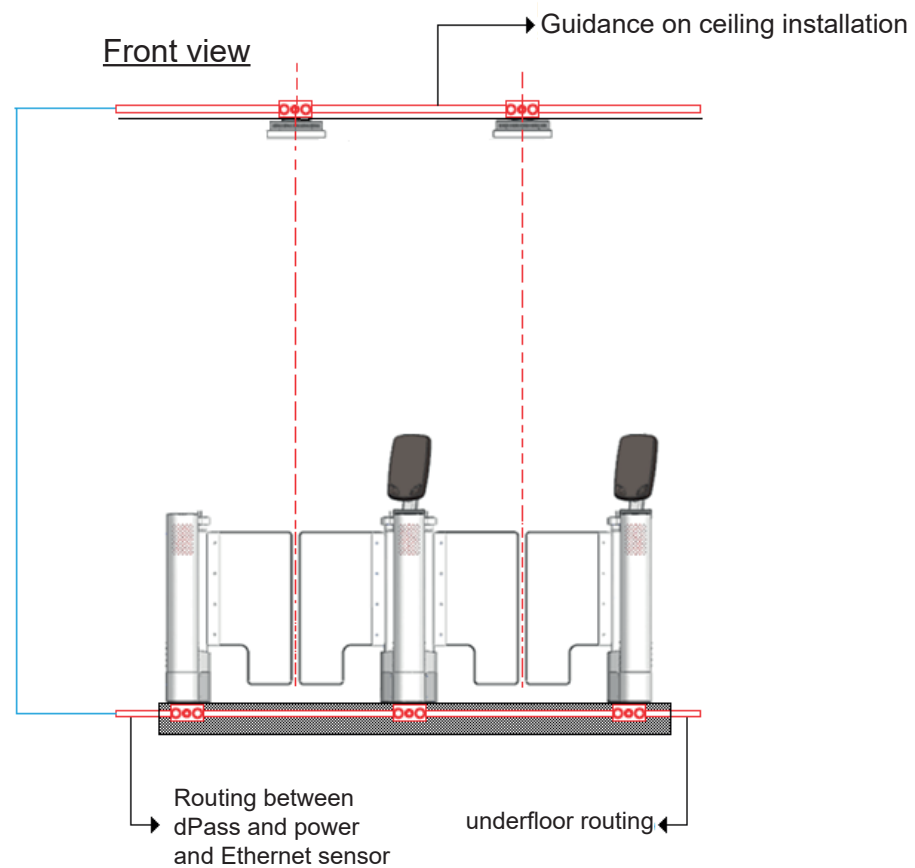
A conduit must be left from the junction box, leaving 1700mm of cable crimped with an RJ45 connector for connection to the equipment.

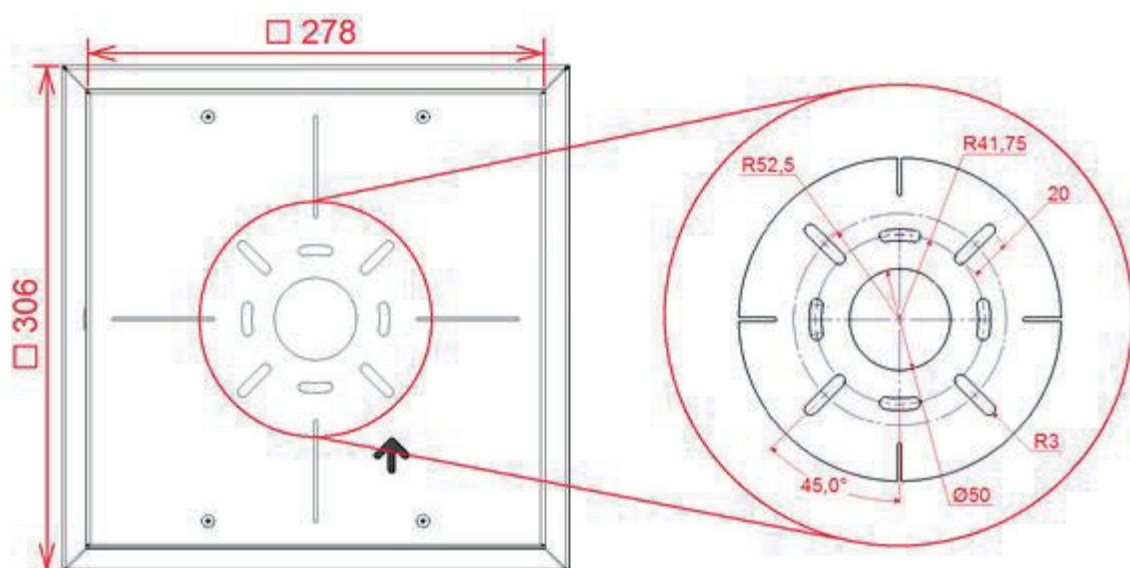
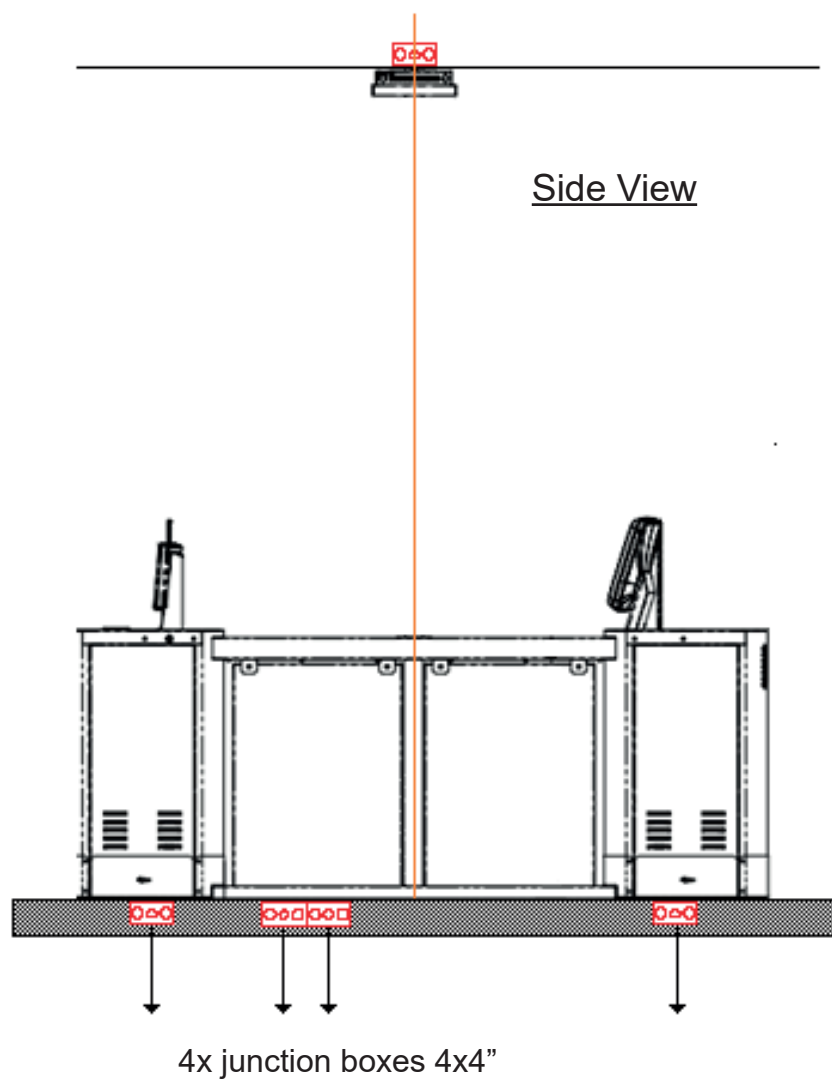


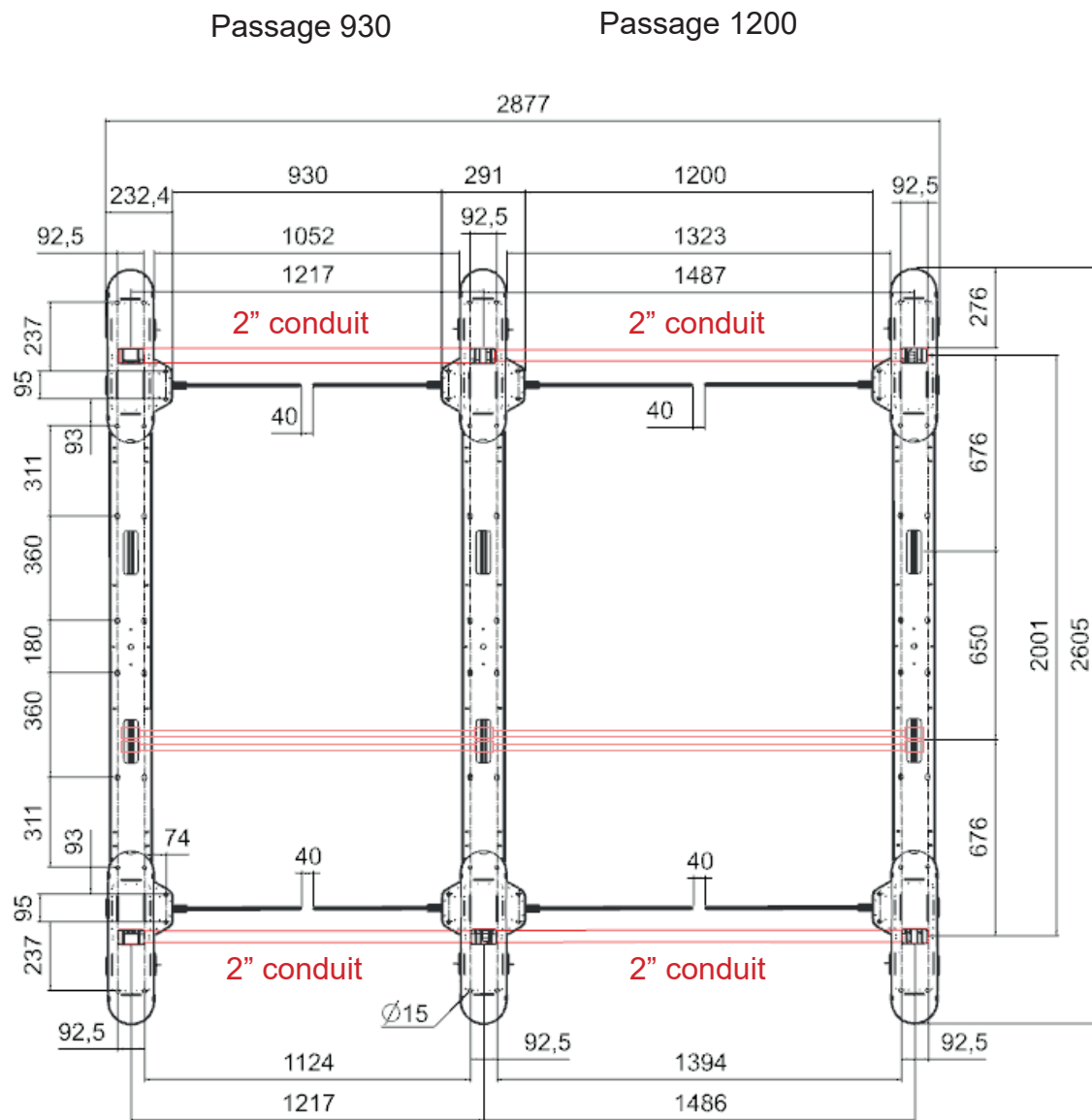
The camera has the following characteristics:

- Power Supply: 12V DC $\pm$ 10%, PoE (802.3af).
- Maximum Resolution: 1920x1080p
- IR Range: 30 meters.
- Communication Interface: 1 RJ45 10/100M Ethernet interface (use Cat5E or Cat6 standard cables).

11. Drawings







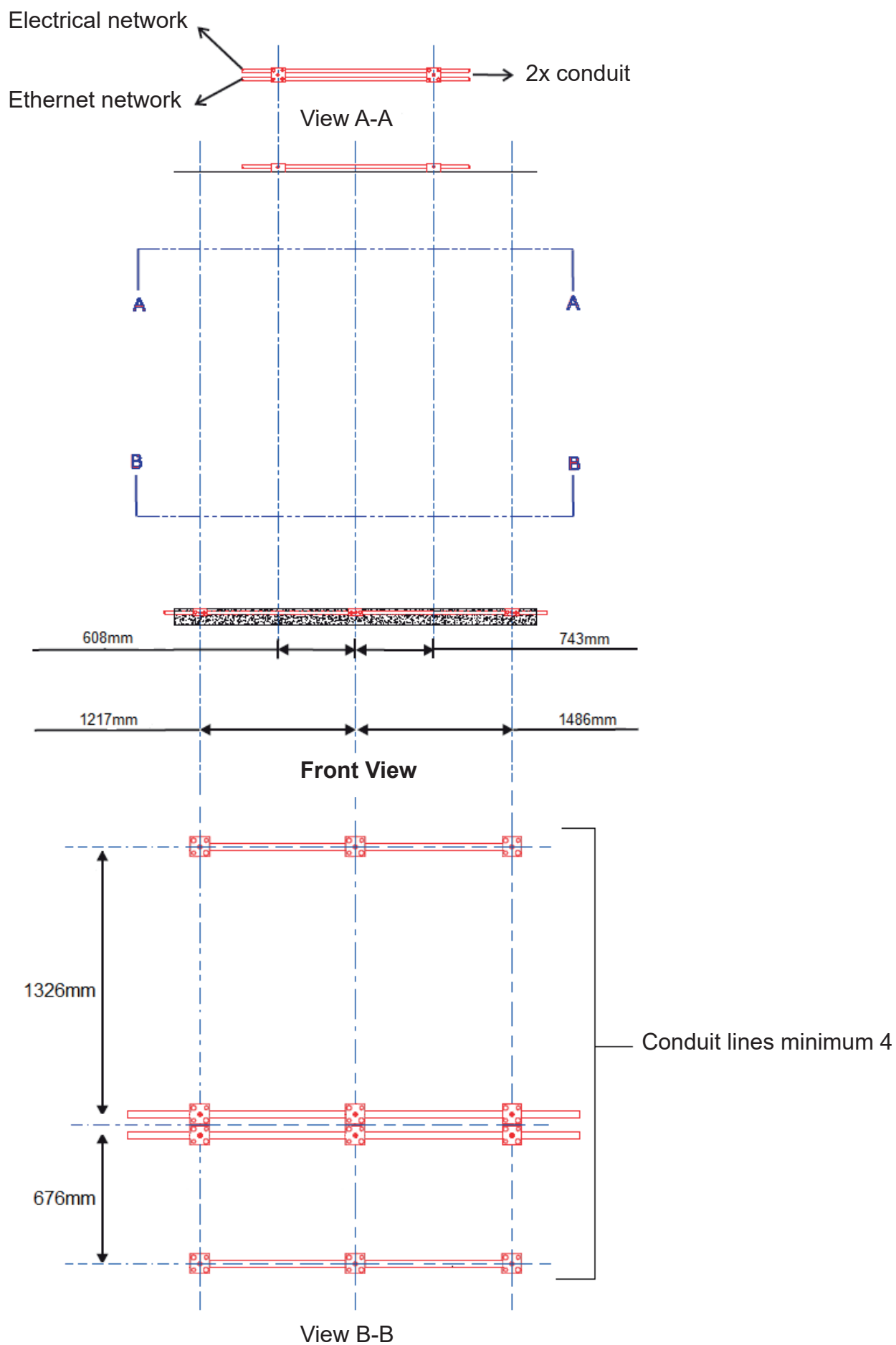


Table - Checklist

DPASS INSTALLATION CHECKLIST			
Date:			Inspector:
Client/Integrator:			Signature:
Inst. Location:			Company:
Item N°	Installation Specifications	OK NOK	Comments and Action Plan
9. Installation Requirements			
9.1 Installation Location			
9.1.1	Sunlight		
9.1.2	Open environment		
9.1.3	Minimum width		
9.1.4	Minimum side-by-side width		
9.1.5	Packages/Boxes		
9.2 Positioning of modules			
9.2.1	Alignment		
9.3 Sensor positioning			
9.3.1	Stable structure		
9.3.2	Parallelism		
9.3.3	Centering		
9.3.4	Height		
9.4 Floor and subfloor			
9.4.1	Concrete specifications		
9.5 Floor Fixing			

9.5.1	Digicon recommendation		
9.5.2	Quantity		
9.6 Cable routing to the modules			
9.6.1	Conduit lines		
9.6.2	Individual lines		
9.6.3	Conduit diameter		
9.6.4	Junction box		
9.6.5	Position of the junction box		
9.7 Cable routing to the sensor			
9.7.1	Conduit line		
9.7.2	Individual lines		
9.7.3	Interconnection between dPass and sensor		
9.7.4	Conduit diameter		
9.7.5	Junction boxes		
9.7.6	Position of the junction boxes		
9.8 Cabling for equipment's network connectivity			
9.8.1	Individuality		
9.8.2	Cable category		

9.8.3	Entry position		
9.8.4	Excess cable		
9.8.5	IP address		
9.9 Electrical wiring for equipment			
9.9.1	Individuality		
9.9.2	Cable specification		
9.9.3	Entry position		
9.9.4	Excess of cables		
9.9.5	Dimensioning		
9.10 Wiring for sensor's network			
9.10.1	Individuality		
9.10.2	Cable specification		
9.10.4	Exit position		
9.10.5	Length of the conduit		
9.11 Wiring for sensor's electrical network			
9.11.1	Individuality		
9.11.2	Cable specification		
9.11.3	Exit position		

9.11.4	Length of the conduit		
9.12 Specifications			
9.12.1	IP (Internet Protocol)		
9.12.2	Power Supply		
9.13 Installation evidence			
9.13.1	Photos and videos		

Signature

NOTES:

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