AMZ-HD41-2
Installation Guide

READ THIS FIRST

Version 1.15.0
March 20, 2017

REVISION	DATE	DESCRIPTION
1.12	9/20/2016	Updated camera label example
1.13	12/11/2016	Updated certification label image
1.14	1/17/2017	Corrected camera description; added 24VDC version
1.15	3/20/2017	Add revision history

Table of Contents

1 Check Receipt of All Components

1.1 Component List

Before you proceed, be sure you have received all of the components listed below:

- Fixed 2 megapixel camera in enclosure
- Wall mount arm
- L hex key
- Bench test kit

AMZ-HD41-2-xA (aluminum housing)

AMZ-HD41-2-xS (stainless steel housing)

If ordered, you may have also received:

a) Any special mounting equipment (e.g. IVC Pole Mount Kit)

NOTE: Only one bench test kit is enclosed per order, it may be in a separate box

NOTE: Special mounting equipment may be in a separate box and may

require additional materials for installation. (Consult the specific kit for more information)

NOTE: The AMZ-HD41-2 is available with an aluminum or stainless steel enclosure (as pictured above). The installation procedure is identical for both models.

1.2 Additional Installation Requirements

The following items are required to properly complete installation:

- 5/32" hex driver
- Small flathead screwdriver
- Straight-through Ethernet cable with RJ-45 connectors
- A Windows™ computer running IVC Camera Management Software
- A Windows™ computer running Internet Explorer 8.x (or higher)
- Tools for Special Mounting Kit (e.g. IVC Pole Mount Kit). (See kit for details)

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2 Set Up and Bench Test Camera

2.1 Remove Packaging and Inspect Camera

Inspect the camera for any signs of damage. Keep in mind the enclosure lens is constructed of soft acrylic for optimal optical characteristics. It can be scratched easily. Use only a damp soft cloth or vigorous water spray to clean.

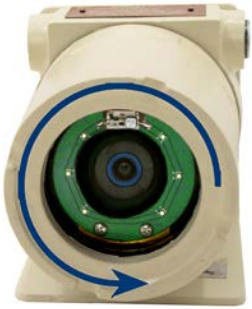
If any damage occurred during shipping please call our support line (617-467-3059) for assistance.

2.2 Connect Ethernet Cables

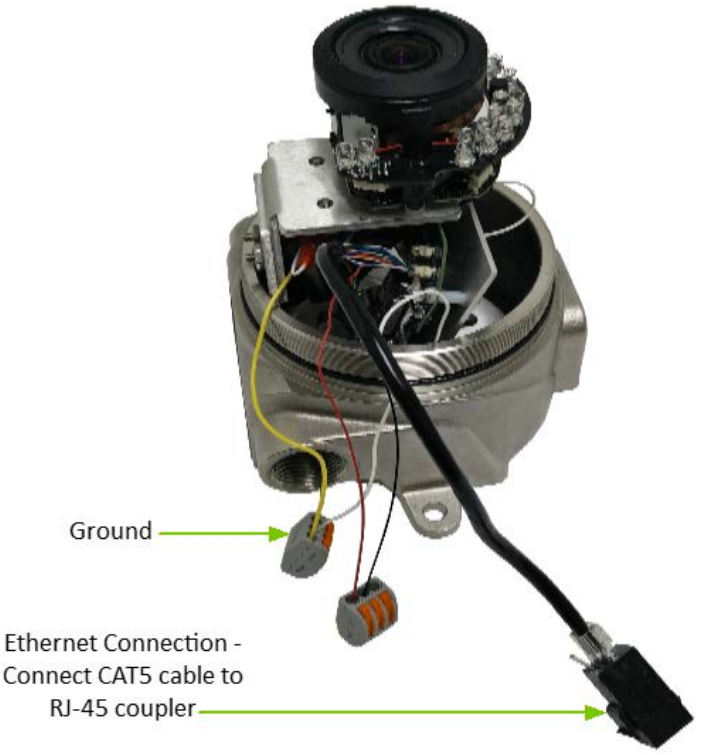
The camera provides two 3/4" NPT cable openings on each side of the enclosure to which cable glands or conduit fittings can be attached. Feed your CAT5/6 cable through the appropriate opening and connect as illustrated below.

1. Loosen the camera housing cover set screw with the L hex wrench provided.

2. Grasp enclosure cover firmly and turn counterclockwise to remove.
   NOTE: The threads on the enclosure base and cover have had lubricant applied to them at the factory. Take care as to not get this on the enclosure lens.



3. A short CAT5 pigtail is connected to the camera's RJ-45 connector. Connect a CAT5 cable from your PC, switch, or other network appliance to the RJ-45 coupler attached to the other end of this pigtail.



4. When power is supplied the camera, the switch port to which the camera is connected should show link activity.

2.3 Connect Power

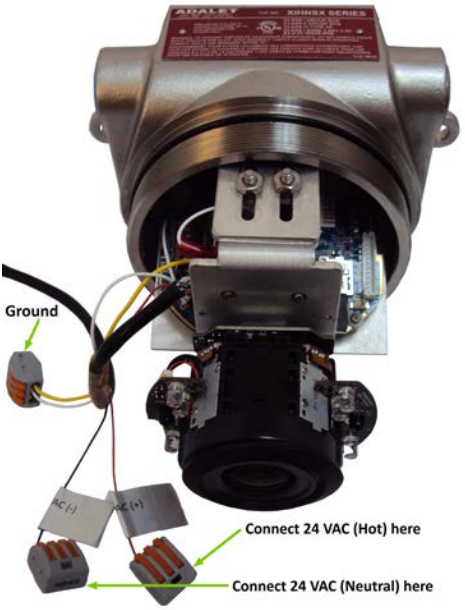
The AMZ-HD41-2 is offered with several power options. To connect power for the camera you purchased, select the appropriate option below.

PoE

No additional wiring is required. Terminate the CAT5 cable connected to the camera to an IEEE 802.3af compliant PoE injector, switch port, or midspan to provide power to the camera.

24 VAC

Feed the 24 VAC power cable through the enclosure cable opening and connect as illustrated below. To connect power wiring, lift orange level corresponding to an open terminal on the connector, insert the wire, and close the orange lever.

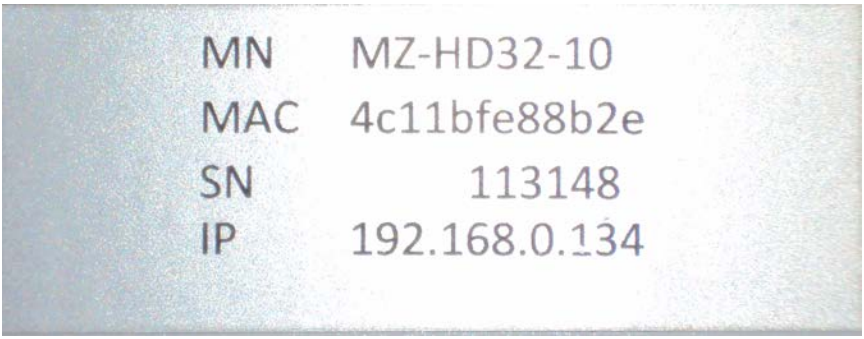


12 VDC

Feed the 12 VDC power cable through the enclosure cable opening and connect as illustrated below. To connect power wiring, lift orange level corresponding to an open terminal on the connector, insert the wire, and close the orange lever.

2.4 Set Camera IP Address

For your convenience, the camera's default IP is printed on the information label attached to the camera box.



Example camera information label

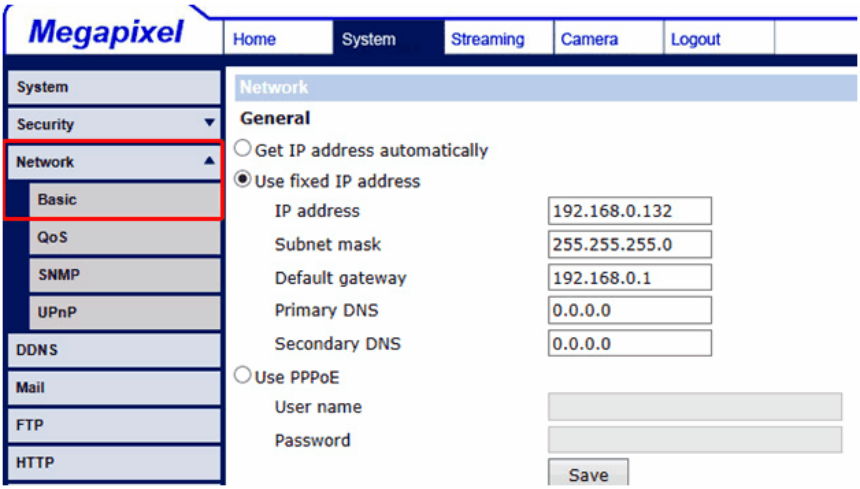
The camera's IP address has been set on a 192.168.0.x/ class network. For this section, the computer you are using for bench testing must be set to the same subnet as the camera (e.g. 192.168.0.###). Consult your network administrator if you need assistance.

Once you have located the IP address please follow the instructions below to set it to a permanent address:

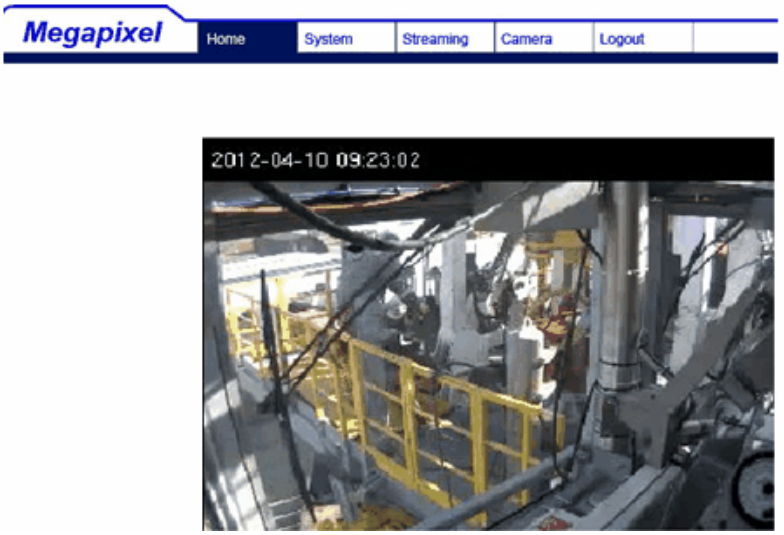
1. Using a web browser enter the IP Address in the address bar, install

the required ActiveX control if prompted by the browser and check that you are able to see live video.

2. When prompted by your browser, enter the camera username (factory default = **Admin**) and password (factory default = **1234**).
3. To change the IP address click on the **System** tab and then click **Network**, and **Basic** options in the webpage menu.
4. Under the **General** section, click the **Use fixed IP address** radio button and enter the IP address the camera you wish to assign to this camera. If needed, you may also change the port setting under the Advanced section. Click the Save button when finished defining the network settings for this camera



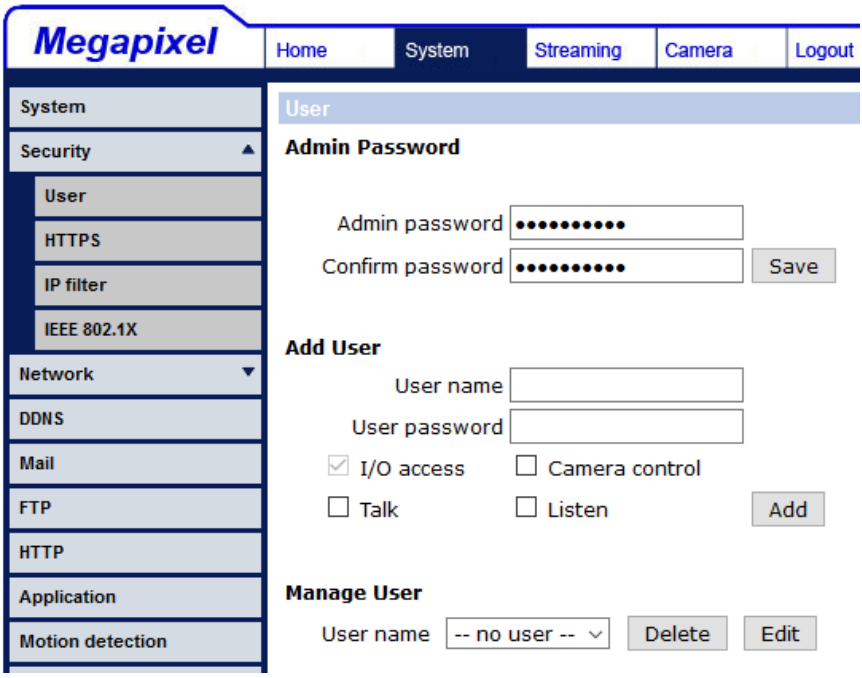
4. Camera will reboot. Wait ten seconds and then click the Home tab.
5. Enter the new IP address in the browser address bar, click the Home tab, and observe live video from the camera.



2.5 Configure Admin Password

IVC camera management software uses the Admin login to access the camera. If you desire to change the Admin password, follow the steps below:

1. If not already logged in, log into the camera by typing the camera's IP address into a browser address bar.
2. When prompted by your browser, enter the default username (**Admin**) and password (**1234**).
3. Click on the **System** tab.
4. Click on **Security** in the resulting page's menu.
5. Click on **User** in the Security menu.
6. Enter a new password in the **Admin password** text field. Enter the same password in the **Confirm password** text field. **NOTE:** The new login credentials will be needed to configure the camera in your IVC camera management software.
7. Click the **Save** button.



8. Refresh the web page and enter Admin and the new password when prompted. Observe proper camera operation.

2.6 Bench Test Completed

This concludes the bench test. Reassemble the camera.

3 Install Camera

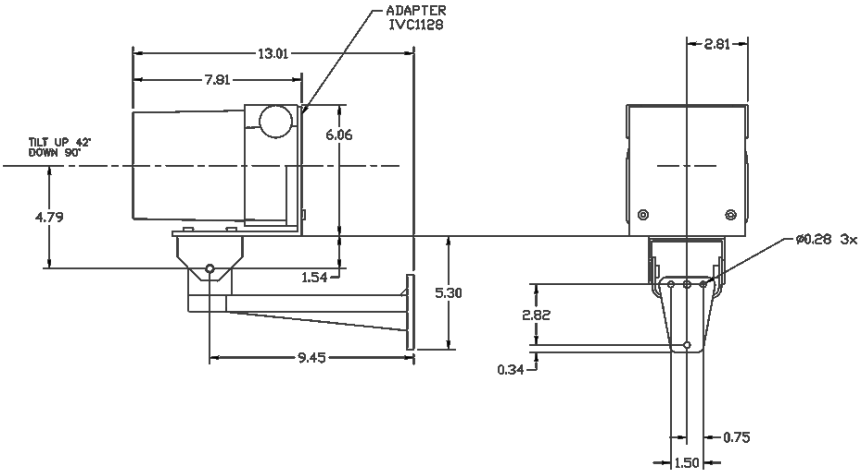
The sections of this chapter describe the steps necessary to install the camera at its operational location.

CAUTION: All installations must insure the camera assembly is mounted securely to ensure that it cannot become dislodged during high wind, accidental bumping or other such incidents. All wiring must comply with NEC, NFPA, and local codes.

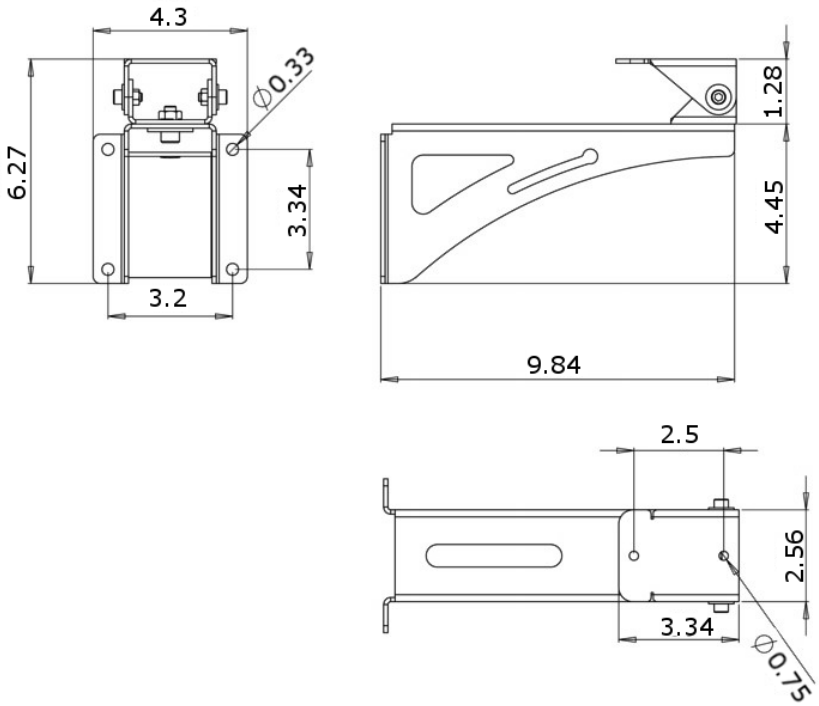
NOTE: IVC is not liable for direct or consequential damages resulting from use of this product and IVC makes no guarantees regarding results of intended and unintended use of the product. If this product is used in a manner not specified by IVC, the protection provided by the product may be impaired.

3.1 Mount the Camera

It is important to mount the camera and its control box to a solid, stable surface or pole. If the camera is to be bolted to a flat horizontal surface, refer to the appropriate drill pattern below (all dimensions in inches).



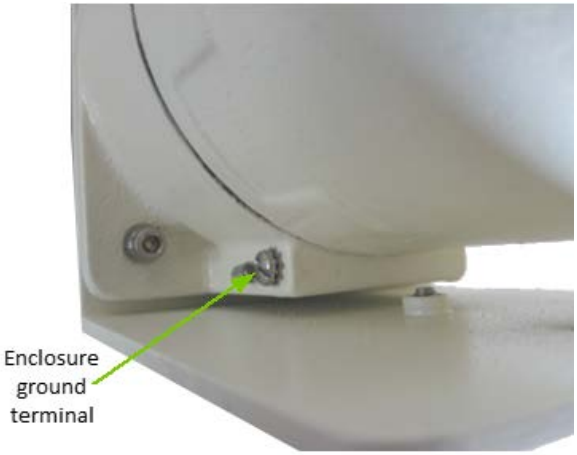
AMZ-HD41-2-x-A mount arm footprint



AMZ-HD41-2-x-S mount arm dimensions

The enclosure includes two ports for cable access. These will accommodate a 3/4 inch cable gland or NPT conduit fittings.

Be sure to ground the chassis by attaching ground cable to the ground terminal as indicated below.



NOTE: If the camera is to be attached to a round pole 3'' to 15" in diameter, we suggest the IVC Pole Mount Kit. The Pole Mount Kit requires a steel band installation. A banding tool is required but not included. It is available from McMaster Carr (1-732-329-3200) and is listed as "Standard Banding Tool" Item No: "PN 5424K3."

3.2 Camera Power

In some circumstances, IP cameras may require an occasional power interruption to reinitiate the camera software after installation. Ideally, the power for each installed camera should be routed through a permanent and conveniently accessible power switch.

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4 Support Information

If you experience any problems please call us (617–467–3059) or email support@ivcco.com.

Please note that no equipment (in-warranty or out-of-warranty) should be sent back to IVC without an Return Material Authorization (RMA). Contact IVC support or your IVC sales representative for an RMA.

CAUTION: All installations must insure the camera assembly is mounted securely to ensure that it cannot become dislodged during high wind, accidental bumping or other such incidents. All wiring must comply with NEC, NFPA, and local codes.

NOTE: IVC is not liable for direct or consequential damages resulting from use of this product and IVC makes no guarantees regarding results of intended and unintended use of the product.

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5 Appendix A - Camera Specifications

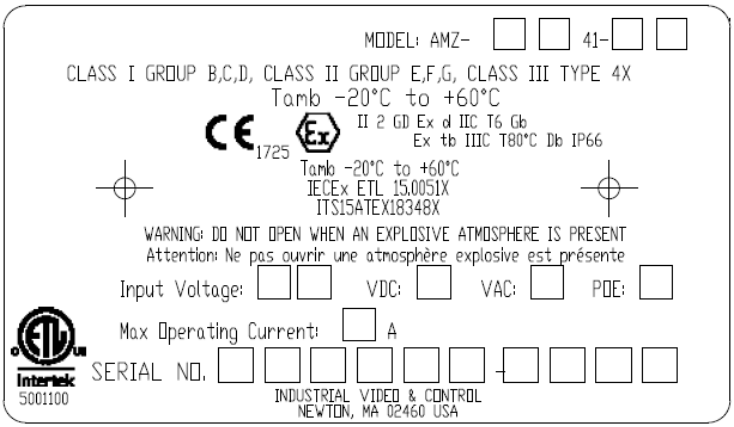
Imager	1/2.8” Progressive Scan CMOS
Resolution	1920 x 1080
Shutter	1 to 1/10,000 Seconds
Minimum Illumination	0 lux to 25m with illuminators
WDR	On/Off/Auto
Image Features	Auto Exposure, Auto White Balance, Auto and Manual Iris, Back Light Compensation
Focus	Auto
Zoom Ratio	3x Optical Zoom
View Angle	33.2° - 83.7°
Focal Length	3 – 9 mm
F-number	1.2 - 2.1
Network	10/100 BASE-T (RJ-45)
Frame Rate	30 FPS
Compression	H.264, MJPEG
Protocols	TCP/IP, HTTP, FTP, SMTP
Weight	8.1 lbs. (Aluminum Enclosure) 10.2 lbs. (Stainless Steel Enclosure)
Voltage Required	12 VDC, 24 VDC, IEEE 802.3af PoE
Power Consumption	1.2A @12 VDC 0.6A @ 24 VDC 0.3A @ 48 VDC (PoE)
Operating Temperature	-29° to 60° C -10° to 60° C (PoE version)
Storage Temperature	-35° to 65° C
Dimensions	5.50” H x 5.50” W x 7.75” D (Aluminum) 5.50” H x 5.50” W x 8” D (Stainless Steel)
Mount	Wall Mount Standard
Protection Class	NEMA Type 4x, IP66

*Actual voltage required depends on model ordered

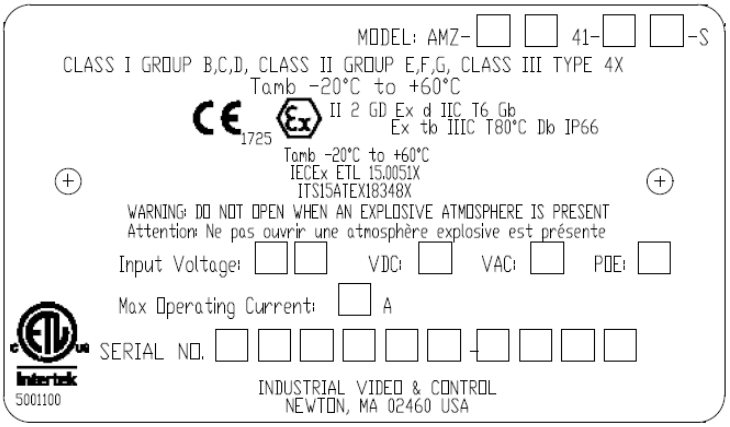
Regulatory Approvals		
Safety	Conforms to UL STD 61010-1 + UL1203 Certified to CSA STD CSA22.2 NO.30 + CAN/ CSA C22.2 No. 25 EN 60079-0:2012, EN 60079-1:2007, EN 60079-31:2009. ATEX 94/9/EC.	
Hazardous Area	Class I Groups B, C & D, Class II Groups E, F & G, Class III Type 4x Class I Zone 1 AEx d IIC Ex d IIC IEC 60529, T6	

6 Appendix B - Operation in Hazardous Areas

Prior to deployment ensure that the camera has the following nameplate attached with the appropriate model, voltage, current, and serial number. The last four digits of the serial number indicate the product's year of manufacture.



Nameplate for Aluminum Enclosure



Nameplate for Stainless Steel Enclosure

Also note that entry to the equipment must be made by suitably certified Ex d IIC Gb, Ex tb IIIC Db IP66, Tamb -20°C to +60°C entry device (e.g., cable gland).

NOTE: A SEAL SHALL BE INSTALLED WITHIN 50mm OF THE ENCLOSURE FOR NORTH AMERICAN INSTALLATIONS.

REMARQUE: UNSCELLEMENT DOIT ÊTREINSTALLÈ ÀMOINS DE 50mm DE L'ENCEINTE POUR L'AMÉRIQUE DU NORD INSTALLATIONS.

NOTE: ENTRY TO THE EQUIPMENT MUST BE MADE SUITABLY CERTIFIED Ex d IIC Gb, Ex tb IIIC Db IP66, Tamb -20°C to +60°C ENTRY DEVICE TO CONFORM TO ATEX AND IECEX COMPLIANCE.

REMARQUE: ENTREE AU équipement doit être présentée dûment établi Ex d IIC Gb, Ex tb IIIC Db IP66 , Tamb -20 ° C + dispositif d'entrée de 60 ° C à A CONFORME AUX zones ATEX et la conformité.

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