

Specification

- Should check Indoor Unit compatibility.
- If there is Integration:
 - Airzone Cloud, BACnet, Lutron, Control4, Elan, RTI, Crestron, Savant } Webservice HUB (AZX6WSPHUB) is required
- Individual (ductless) or Zoned Indoor Unit:
 - Zoned IDU -> as many thermostats as zones with their motorized dampers
 - Individual IDU -> as many thermostats as zones with their Airzone zone module for individual equipment
- Underfloor Heating, Infloor Heating, Baseboard Heating, Duct Heater, Supplemental Heater, or Auxiliary Heat per zone -> Relay Radiant Heat Control Module (AZZBS5OUTPUTS)
- If there are zones with only underfloor heating -> then a thermostat and a radiant zone module (AZZBSZMRAD[C/R]) is required for each of these zones.
- Check Damper Selection [here](#)

Choose your thermostats [here](#)

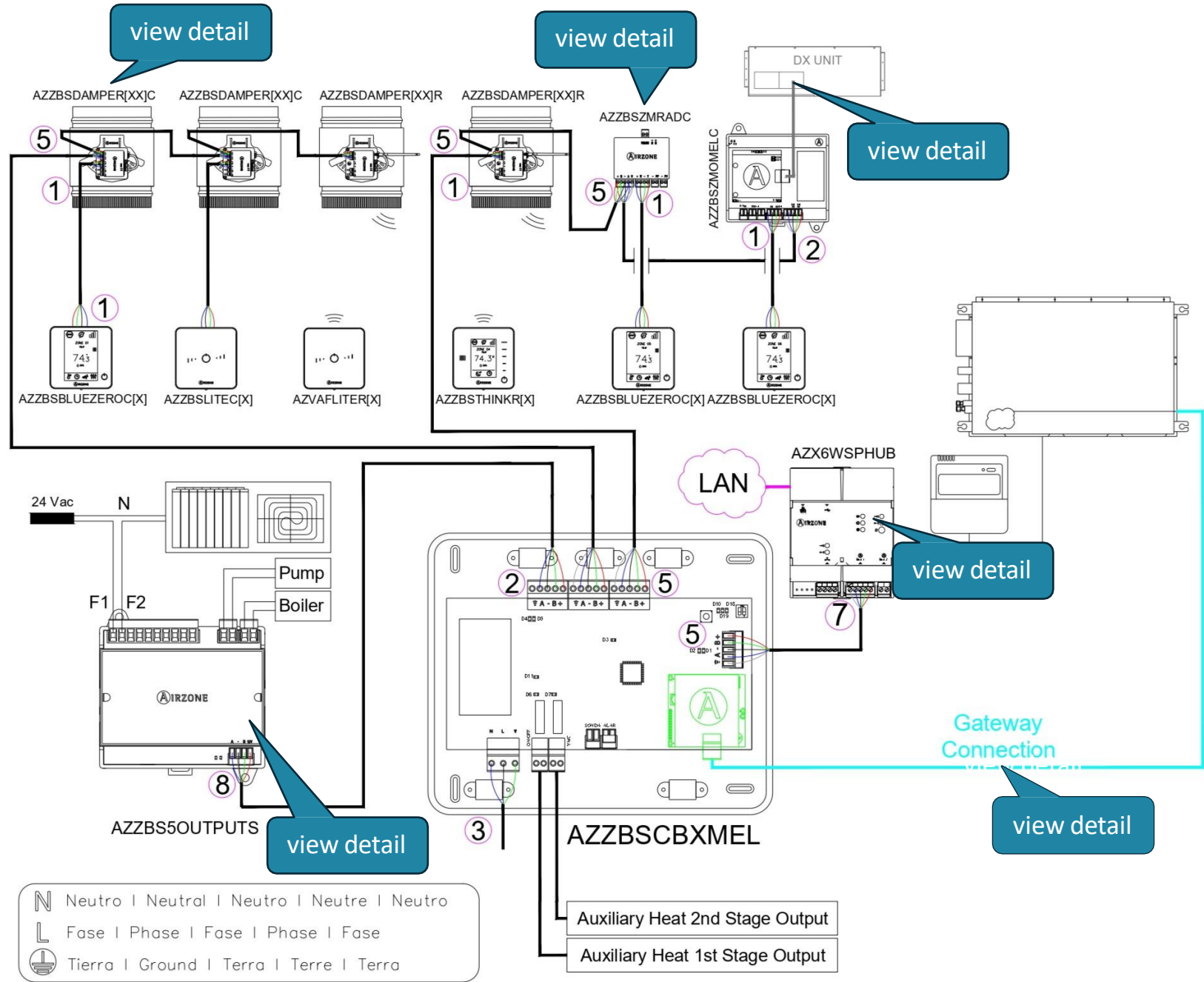
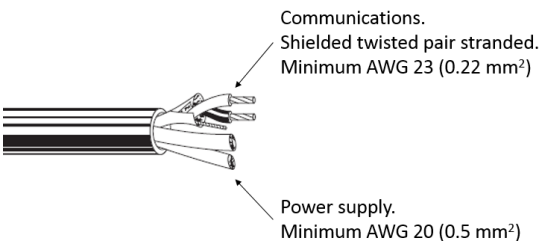
Wiring Diagram

Available formats:

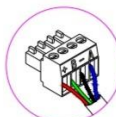
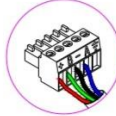
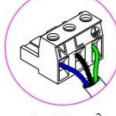
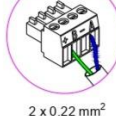
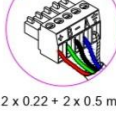
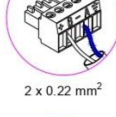
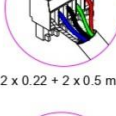
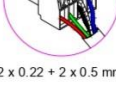
- [DWG](#)
- [PDF](#)

 **FAQs**

Wire or the whole system:



 Neutro | Neutral | Neutro | Neutre | Neutro
 Fase | Phase | Fase | Phase | Fase
 Tierra | Ground | Terra | Terre | Terra

-  1
2 x 0.22 + 2 x 0.5 mm²
-  2
2 x 0.22 + 2 x 0.5 mm²
-  3
3 x 1.5 mm²
-  4
2 x 0.22 mm²
-  5
2 x 0.22 + 2 x 0.5 mm²
-  6
2 x 0.22 mm²
-  7
2 x 0.22 + 2 x 0.5 mm²
-  8
2 x 0.22 + 2 x 0.5 mm²



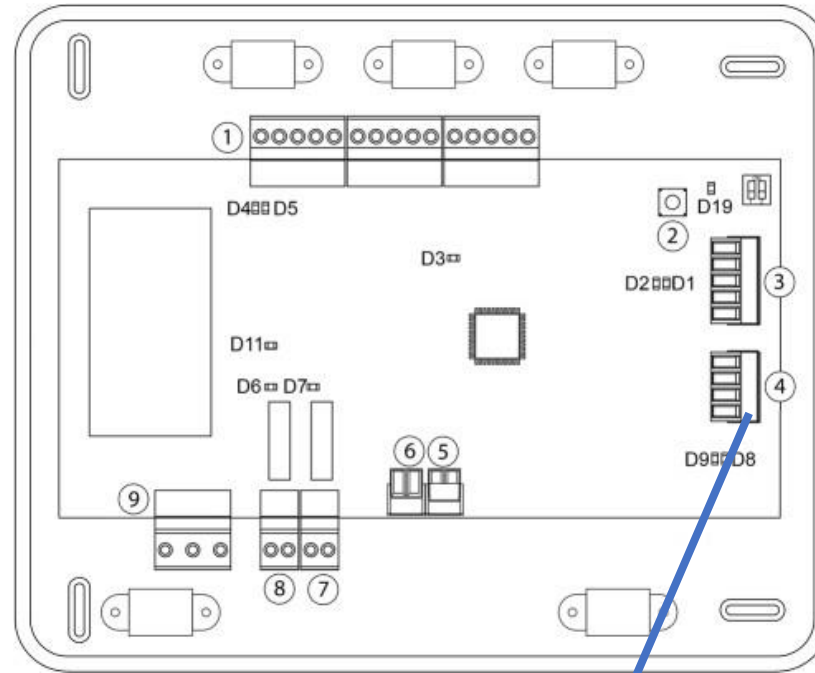
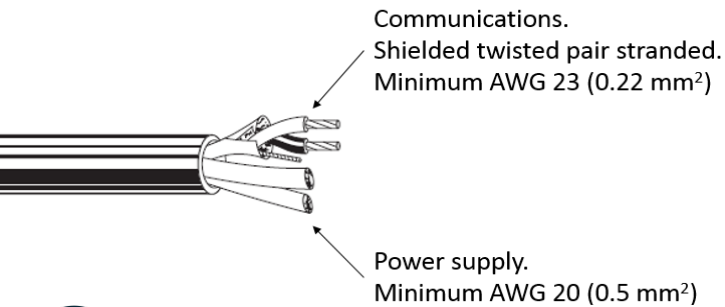
Control Board



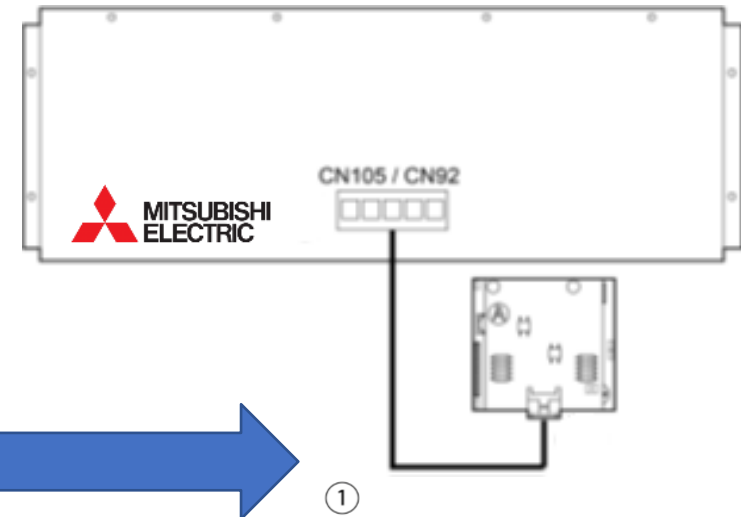
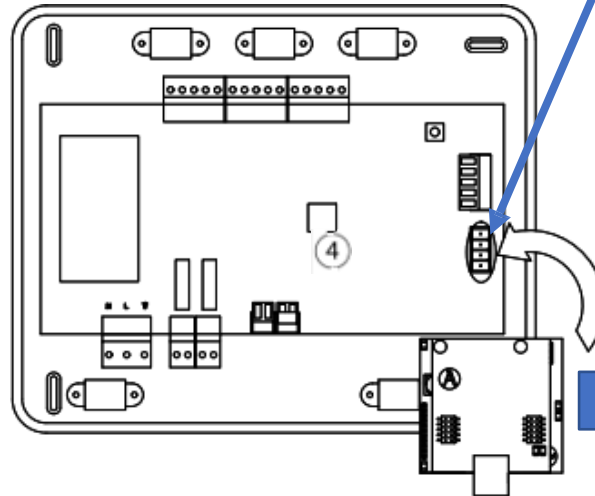
Documentation:

- [Data Sheet CB](#)
- [Data Sheet Gateway](#)
- [Manual](#)
- [Quick Installation Guide](#)

Wire for the whole system:



N°	Description / Description / Descripción
①	Airzone connection bus / Bus de connexion Airzone / Bus de conexión Airzone
②	SW1
③	Automation bus / Bus domotique / Bus domótico
④	AC unit bus / Bus du gainable / Bus máquina
⑤	Alarm input (normally close) / Entrée alarme (normalement fermé) / Entrada alarma (normalmente cerrada)
⑥	Protection temperature probe / Sonde température protection / Sonda temperatura protección
⑦	Auxiliary heat 2nd Stage output / Sortie de l'étape 2 du chauffage auxiliaire / Salida de 2ª etapa de calor auxiliar
⑧	Auxiliary heat 1st Stage output / Sortie de l'étape 1 du chauffage auxiliaire / Salida de 1ª etapa de calor auxiliar
⑨	Power supply / Alimentation / Alimentación

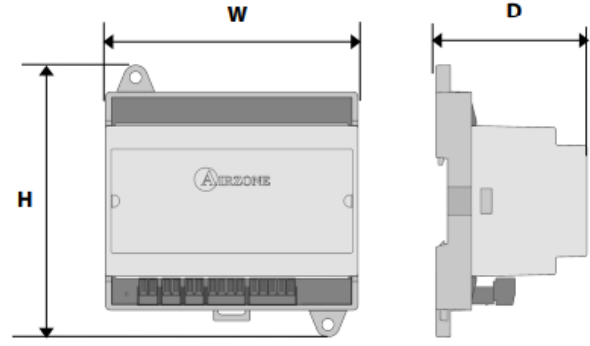


①

[Return to Wiring diagram](#)



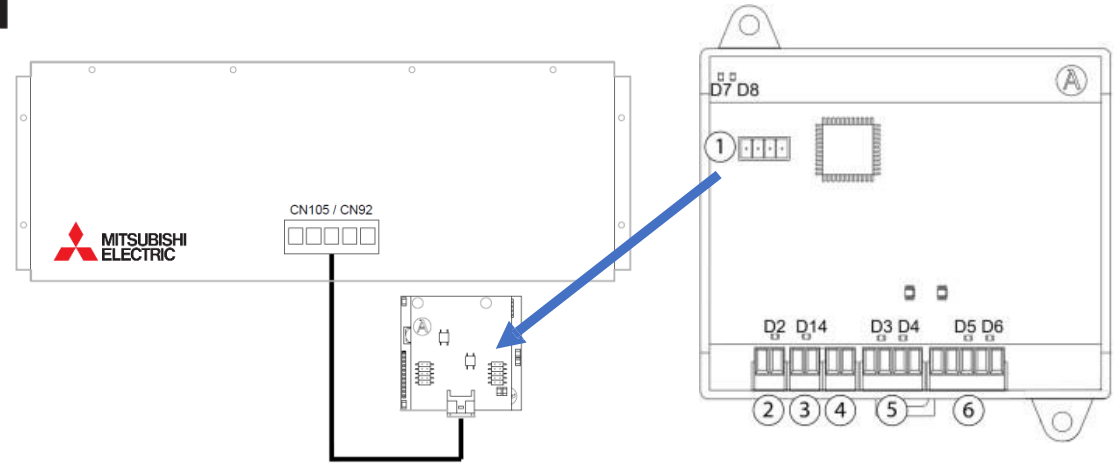
Ductless Zone Module



Mechanical aspects / Aspects mécaniques / Aspectos mecánicos	
Assembly / Montage / Montaje	On DIN rail or on wall Sur rail DIN ou en saillie En carril DIN o superficie
Size / Dimensions / Dimensiones (WxHxD)	105x112x62.8 mm (4.13x4.41x2.47)
In DIN units / En unités DIN / En unidades DIN	6

Documentation:

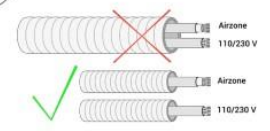
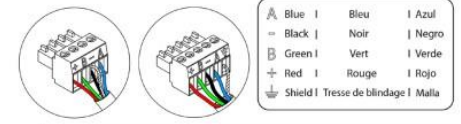
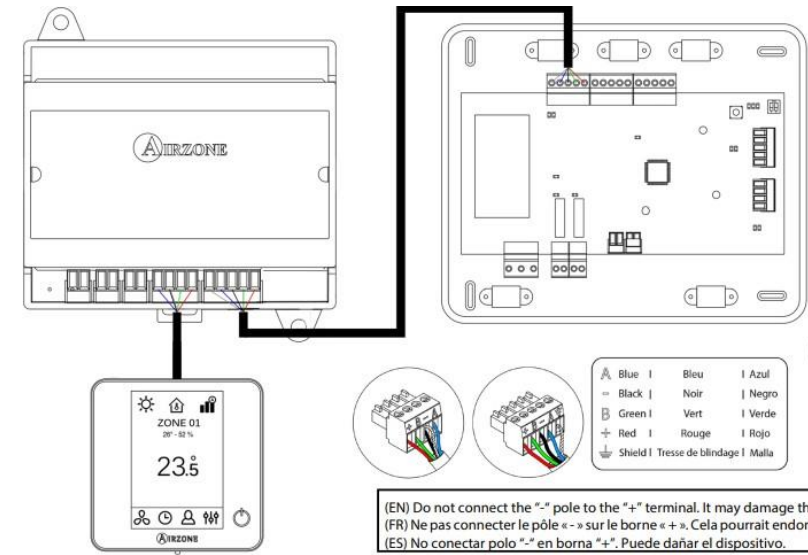
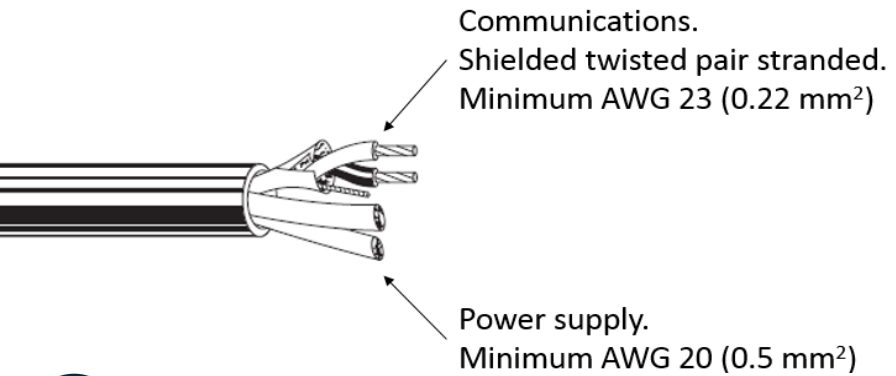
- [Data Sheet](#)
- [Manual](#)



Meaning / Signification / Significado	
①	Gateway connection / Connexion passerelle / Conexión pasarela
②	Probe input / Entrée sonde / Entrada sonda
③	Window contact / Contact de fenêtre / Contacto ventana
④	Presence contact / Détecteur de présence / Contacto presencia
⑤	Thermostat connection / Connexion thermostat / Conexión termostato
⑥	Airzone connection bus / Bus de connexion Airzone / Bus de conexión Airzone

Note: Use a shielded twisted pair to connect the window contact.
Note: Utiliser un câble blindé pour la connexion du contact de fenêtre.
Nota: Para la conexión del contacto ventana utilizar cable apantallado.

Wire for the whole system:



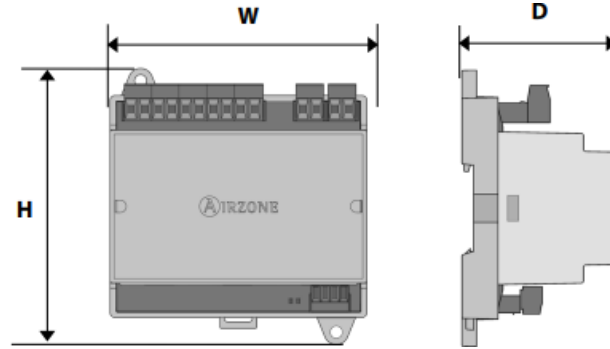
(EN) Do not connect the "-" pole to the "+" terminal. It may damage the device.
 (FR) Ne pas connecter le pôle «-» sur le borne «+». Cela pourrait endommager le dispositif.
 (ES) No conectar polo "-" en borna "+". Puede dañar el dispositivo.

Return to Wiring diagram

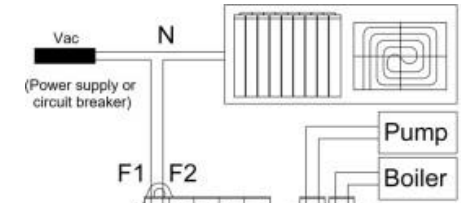


Relay Radiant Heat Control Module

Optional element – review the [Specification](#)

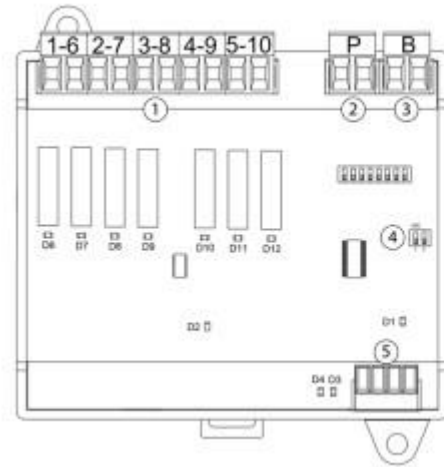


Power supply and consumption / Alimentation et consommation	
Alimentación y consumo	
Type of power supply / Type d'alimentation / Tipo de alimentación	Vdc
V max	12 V
I max	160 mA
Stand-by consumption / Consommation Stand-by / Consumo Stand-by	4 W
Connection and communications / Connexion et communications	
Conexión y comunicaciones	
Type of cable / Type de câble / Tipo de cable	Shielded twisted pair Torsadé et blindé Trenzado y apantallado
Communication wires / Fils de communications / Hilos de comunicación	2 x 0,22 mm ² (AWG 23 – 2 wired)
Power supply wires / Fils d'alimentation / Hilos de alimentación	2 x 0,5 mm ² (AWG 20 – 2 wired)
Maximum distance / Distance maximum / Distancia máxima	100 m (328 ft)
Activation relays / Relais d'activation / Relés de activación	
N° of outputs / Nombre de sorties / N° de salidas	7
V max	24 V
I max	1 A cos θ ($\theta > 0,6$)
Mechanical aspects / Aspects mécaniques / Aspectos mecánicos	
Assembly / Montage / Montaje	On DIN rail Sur rail DIN Sobre carril DIN
Dimensions / Dimensions / Dimensiones (WxHxD)	105x112x62.8 mm (4.1x4.4x2.5")
In DIN units / En unités DIN / En unidades DIN	6

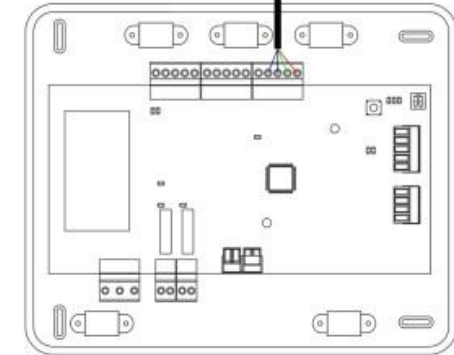


Documentation:

- [Data Sheet](#)
- [Manual](#)



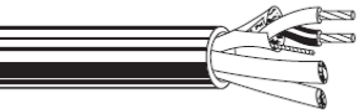
Meaning / Signification / Significado	
①	Zone control relays / Relais de contrôle des zones / Relés de zona
②	Pump control relay / Relais de contrôle de la pompe / Relés de bomba
③	Boiler control relay / Relais de contrôle de la chaudière / Relé de caldera
④	SW2
⑤	Airzone connection bus / Bus de connexion Airzone / Bus de conexión Airzone



Wire for the whole system:

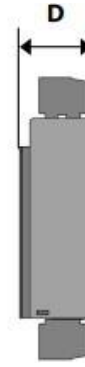
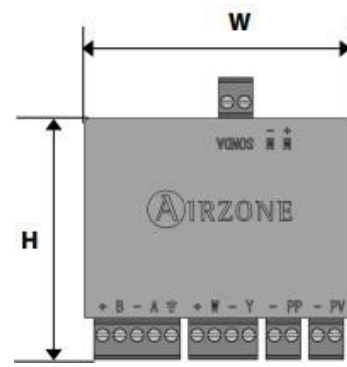
Communications.
Shielded twisted pair stranded.
Minimum AWG 23 (0.22 mm²)

Power supply.
Minimum AWG 20 (0.5 mm²)



Radiant Zone Module

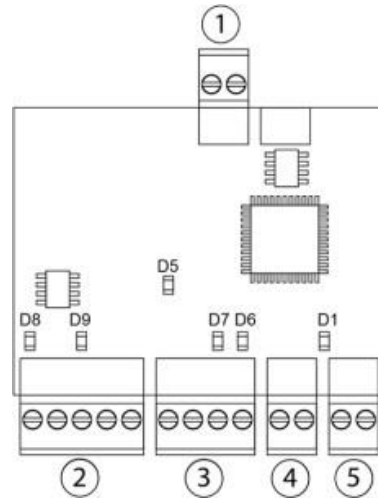
Optional - Only to use with radiant zones



Actuator power supply / Alimentation du moteur Alimentación del motor	
V max	±12 Vdc
I max	300 mA
Mechanical aspects / Aspects mécaniques / Aspectos mecánicos	
Dimensions / Dimensions / Dimensiones (WxHxD)	59x44,5x17mm (2.32x1.75x0.67 ")

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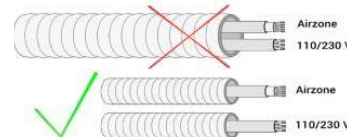
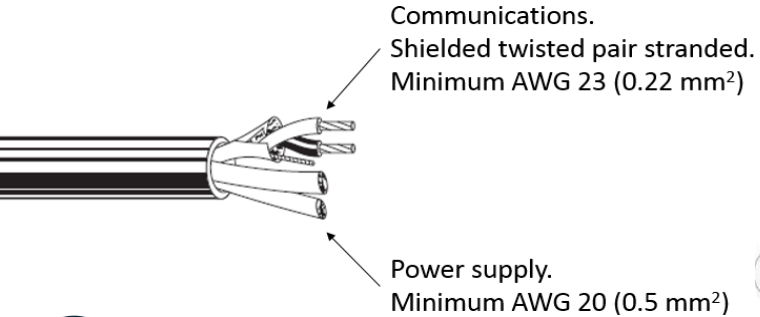
Meaning / Signification / Significado	
①	Probe connector / Connecteur sonde / Conector sonda
②	Airzone connection bus / Bus de connexion Airzone / Bus de conexión Airzone
③	Thermostat connection / Connexion thermostat / Conexión termostato
④	Presence contact / Détecteur de présence / Contacto presencia
⑤	Window contact / Contact de fenêtre / Contacto ventana

Note: Use a shielded twisted pair to connect the window contact.

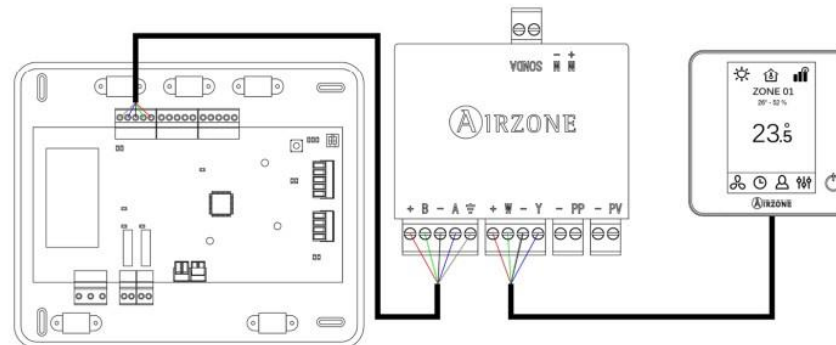
Note : Utiliser un câble blindé pour la connexion du contact de fenêtre.

Nota: Para la conexión del contacto ventana utilizar cable apantallado.

Wire for the whole system:



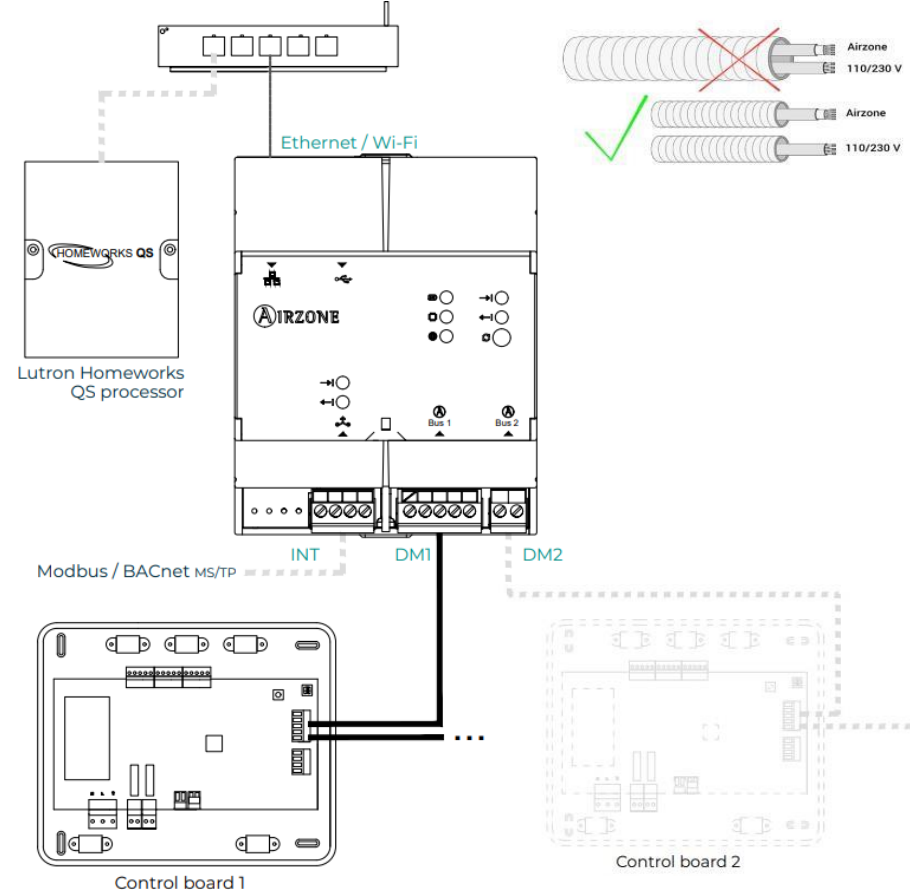
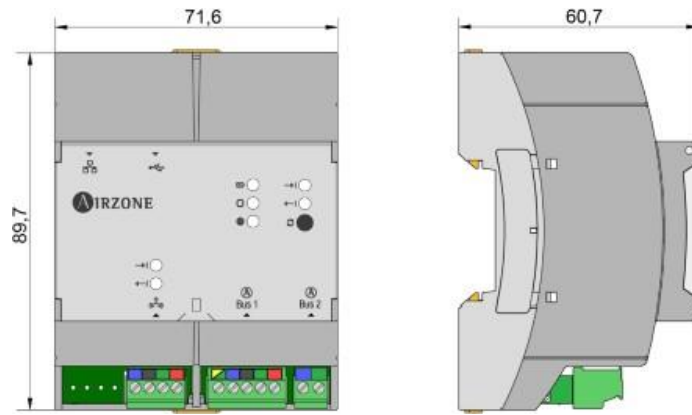
(EN) Do not connect the "-" pole to the "+" terminal. It may damage the device.
(FR) Ne pas connecter le pôle « - » sur le borne « + ». Cela pourrait endommager le dispositif.
(ES) No conectar polo "-" en borna "+". Puede dañar el dispositivo.



[Return to Wiring diagram](#)

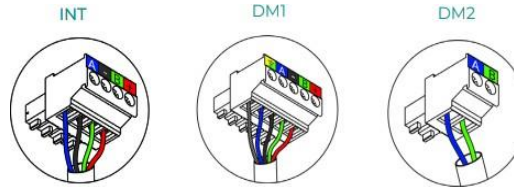


Webserver HUB

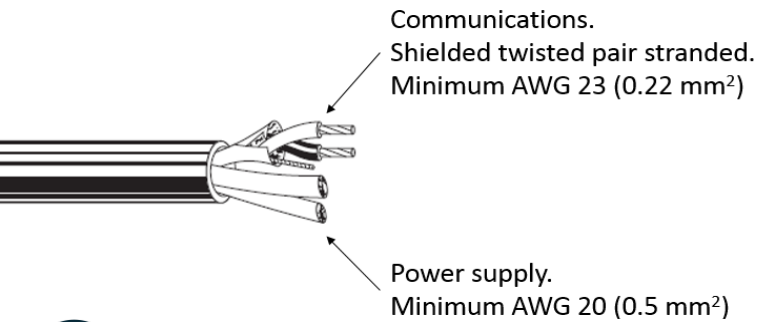


Documentation:

- [Data Sheet](#)
- [Manual](#)



Wire for the whole system:



Nº	Descripción / Description / Descrição
DM1 - DM2	Bus de conexión Airzone / Airzone connection bus / Barramento de conexão Airzone
INT	Puerto Modbus-BACnet / Modbus-BACnet port / Porta Modbus BACnet
Ethernet	Ethernet
x1	Detectar sistema / Detect system / Detectar sistema
	Reset

Webserver HUB integration:



[Link Airzone Cloud](#)



[Link BACnet](#)

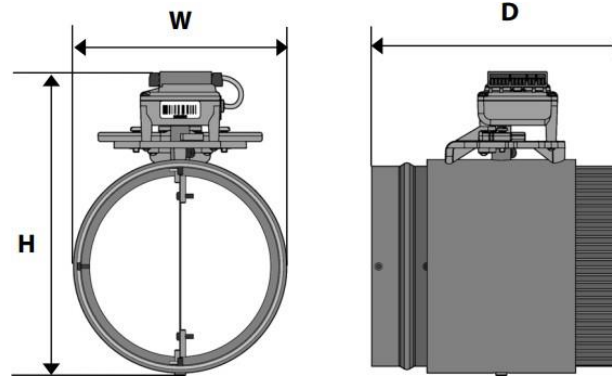


[Link Lutron](#)

[Return to Wiring diagram](#)



Dampers



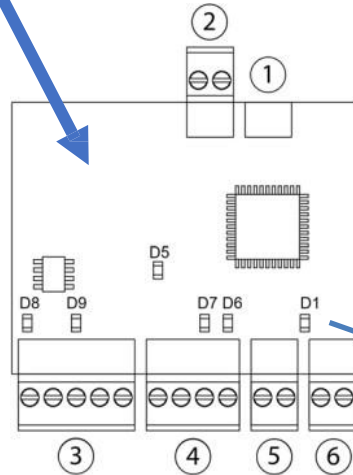
Damper with actuator / Registre motorisée / Compuerta motorizada			
Power supply / Alimentation / Alimentación y consumo			
Type of power supply / Type d'alimentation / Tipo de alimentación			Vdc
V max			12 V
I max			250 mA
Mechanical aspects / Aspects mécaniques / Aspectos mecánicos			
Torque at the actuator axle / Couple au niveau de l'axe du moteur / Par en el eje motor			0.8 Nm
Size / Taille / Diámetro	Weight / Poids / Peso	Dimensions / Dimensions / Dimensiones (HxWxD)	
06"	0.755 kg (1.66 lb)	235.99x152.4x203.2 mm (9.3x6x8")	
08"	0.986 kg (2.17 lb)	271.45x203.2x215.9 mm (10.7x8x8.5")	
10"	1.961 kg (4.32 lb)	337.2x254x266.7 mm (13.3x10x10.5")	
12"	3.2 kg (7.05 lb)	388x304.8x419.1 mm (15.3x12x16.5")	
14"	4.5 kg (9.92 lb)	438.8x355.6x469.9 mm (17.3x14x18.5")	

Documentation:

- [Data Sheet](#)
- [Manual](#)

Selection of dampers

Diameter	Quick guide for damper selection	
	Max. Airflow (CFM)	
	Housing (800 - 1000 ft / min)	Offices (1000 - 1200 ft / min)
6"	198	237
8"	354	420
10"	550	655
12"	790	945
14"	1070	1290

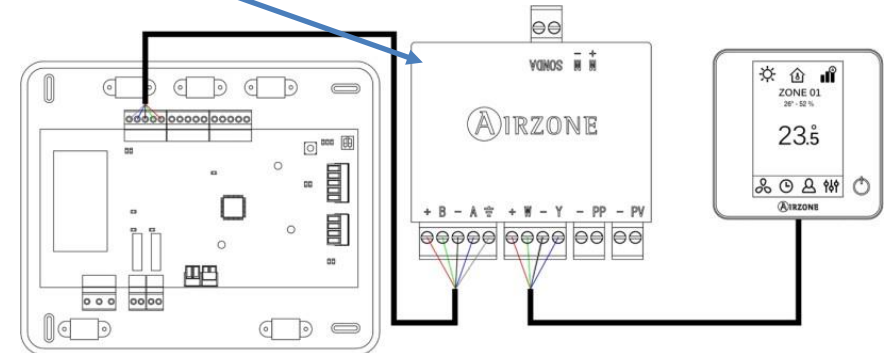


Meaning / Signification / Significado	
①	Motorized element connector / Connecteur élément motorisé / Conector elemento motorizado
②	Probe connector / Connecteur sonde / Conector sonda
③	Airzone connection bus / Bus de connexion Airzone / Bus de conexión Airzone
④	Thermostat connection / Connexion thermostat / Conexión termostato
⑤	Presence contact / Détecteur de présence / Contacto presencia
⑥	Window contact / Contact de fenêtre / Contacto ventana

Note: Use a shielded twisted pair to connect the window contact.

Note: Utiliser un câble blindé pour la connexion du contact de fenêtre.

Nota: Para la conexión del contacto ventana utilizar cable apantallado.



- Check Damper Selection [here](#)
- The dampers module come already mounted on dampers

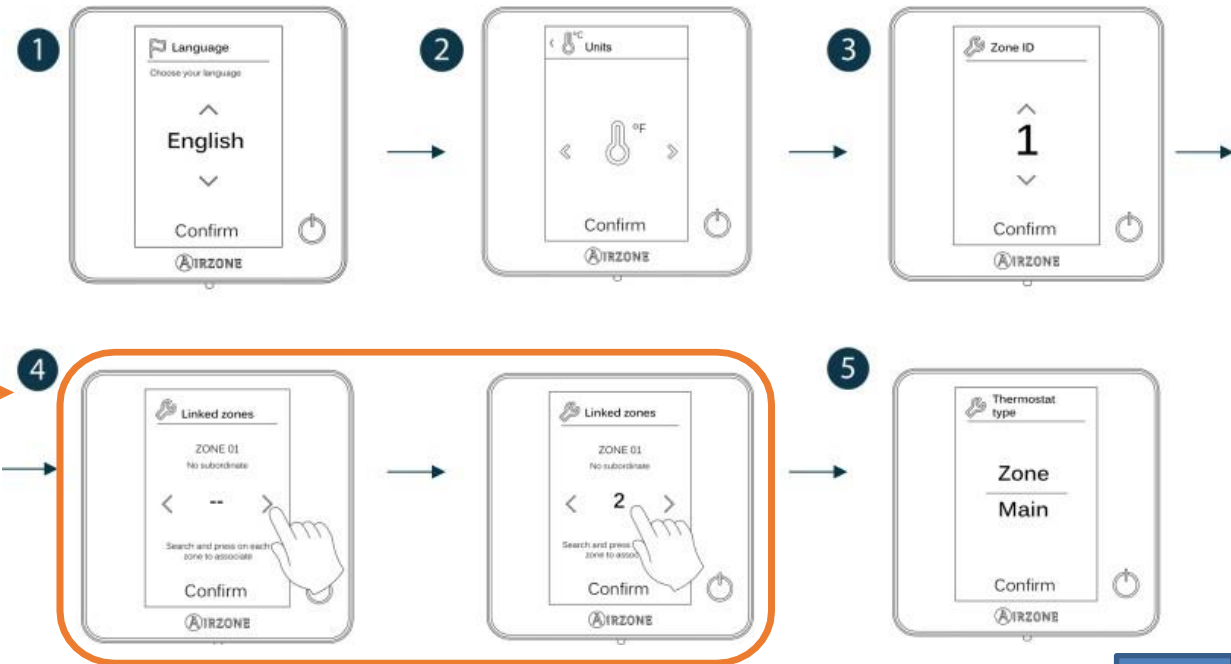
[Return to Wiring diagram](#)



FAQs

- Can I connect two or more dampers to a single thermostat
 - Yes
- Can I operate a zone without a thermostat?
 - Yes, you can connect a remote temperature sensor (AZZBS10KPROBE) to the zone module and control the set temperature via the main BlueZero thermostat or Airzone Cloud App
- Do I have to connect a Mitsubishi thermostat?
 - No
- Can I connect a damper from another manufacturer?
 - No
- How many zones can I add to one system?
 - Up to 10 zones

Steps for subordinate damper:



[Return to Wiring diagram](#)

