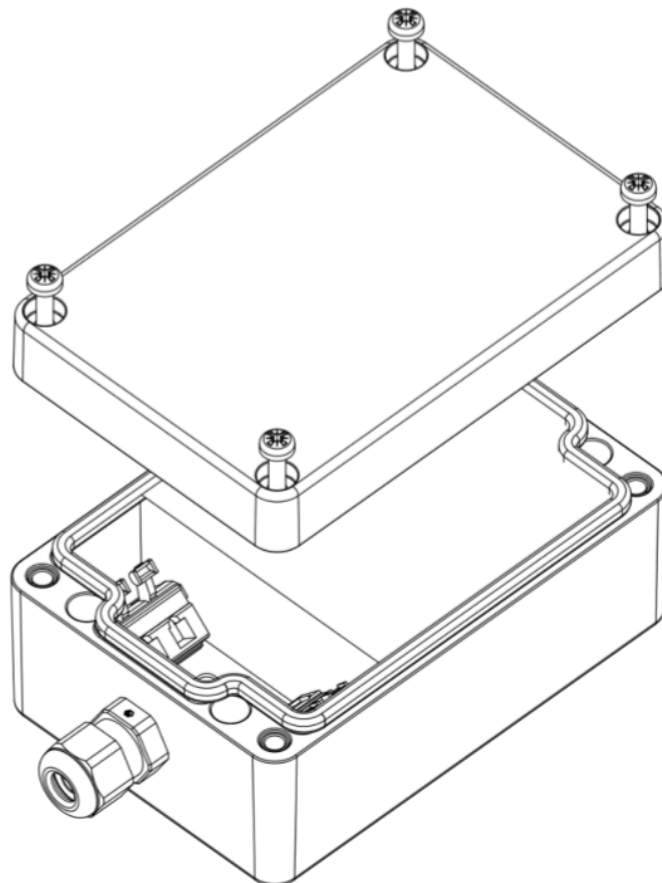


SPOTSIE GATEWAY

INSTRUCTIONS



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1. Device Information

General:

Device name:	Spotise Gateway
Model:	1.0.0
Device type:	IoT WiFi/BLE gateway with integrated dual AC/DC power supplies
Manufacturer:	Connected Devices d.o.o. Ulica Republike Austrije 33, 10000 Zagreb
Type of protection:	Increased safety "e", Protection by encapsulation "m"
ATEX markings:	II 2G Ex eb mb IIC T4...T3
Temperature class:	T4: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C}$ T3: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$
IP rating:	IP66

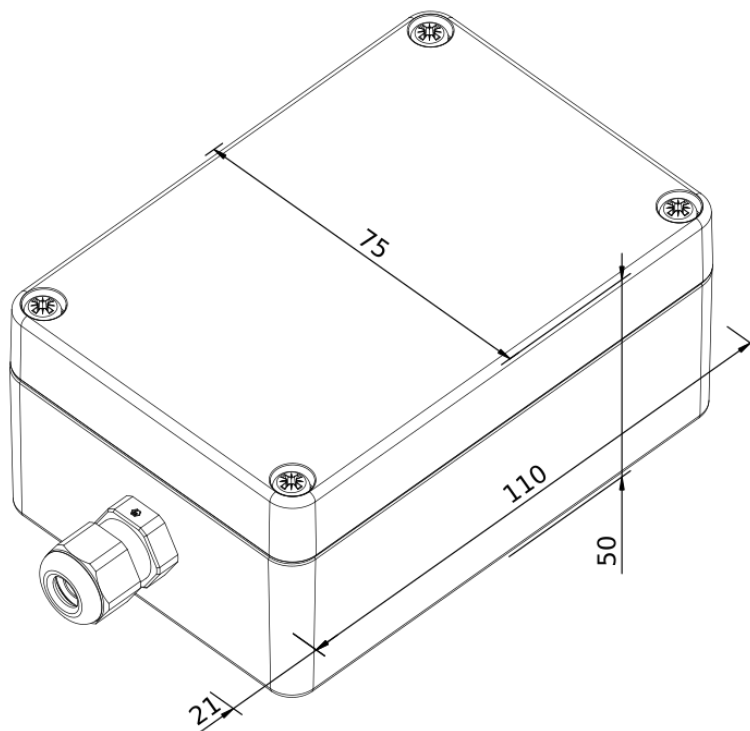
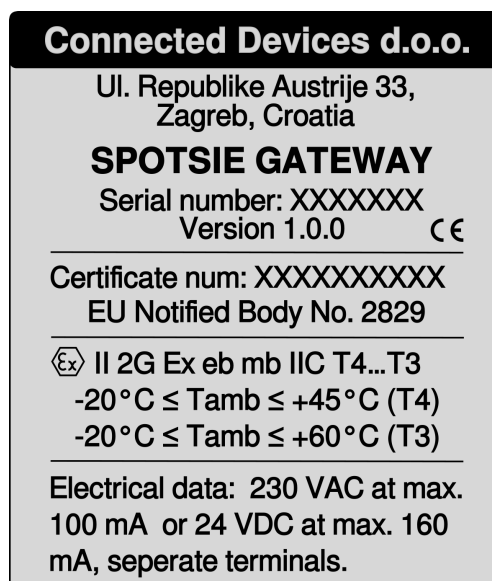
Electrical data:

Power supply type:	Dual, AC and DC supplies with separate terminal blocks
Rated voltage * / current (AC):	85 VAC to 264 VAC / 100 mA
Rated voltage * / current (DC):	4.5 VDC to 36 VDC / 160 mA
Nominal voltage (AC):	230 VAC (47-63 Hz)
Nominal voltage (DC):	24 VDC
Short-circuit current (AC):	10 kA (based on recommended external circuit breaker)
Short-circuit current (DC):	100 A

* Absolute voltage range that the power supply can safely tolerate

Conditions:

The device enclosure has passed the impact test with a lower impact energy of 4 J. Make sure that the mounting location is safe or protected from potential impacts.

General dimensions (mm):Label:

2. Mounting Procedure

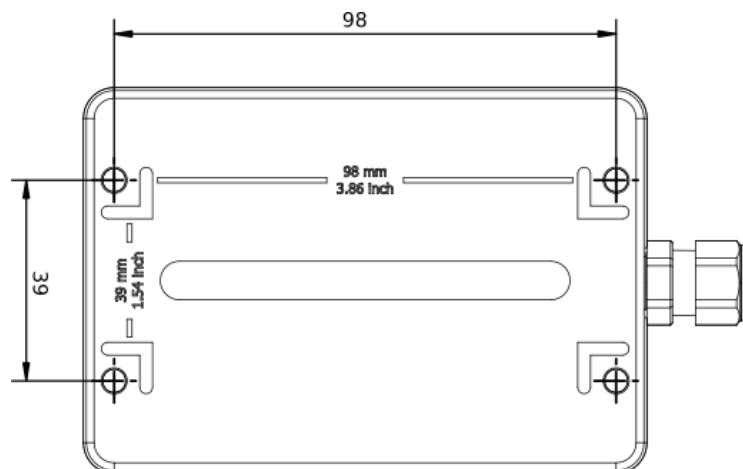
Location:

The first step for a successful Spotsie Gateway deployment is to determine and prepare the location for mounting the device. This location must be chosen so that there is low chance from potential impact and abrasive chemical exposure. In addition, the location and device orientation must optimize devices RF capabilities. Mounting location has to be chosen so that there are no nearby large metallic or liquid body obstructions from more than two out of the six sides. For more information contact the manufacturer.

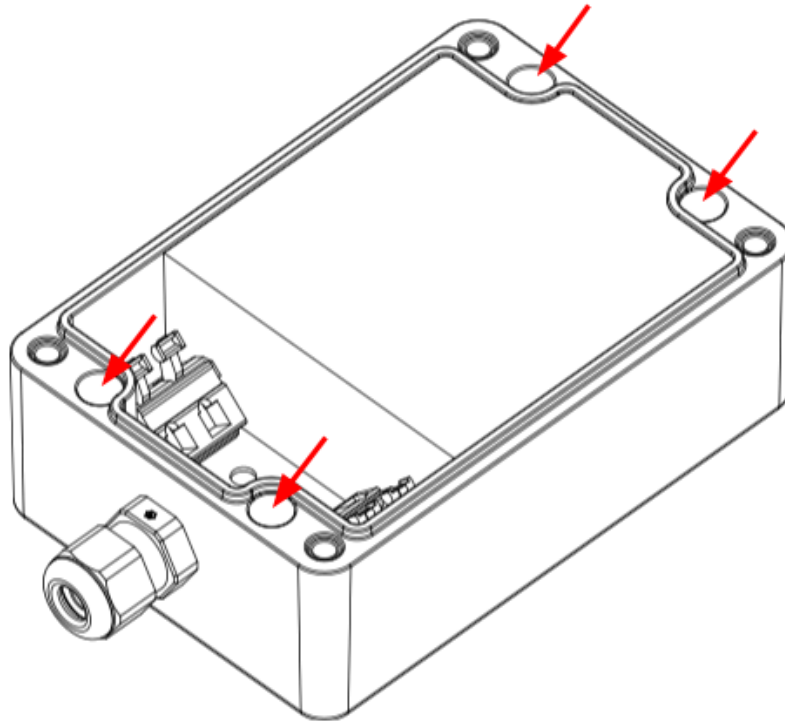
Mounting:

Spotsie Gateway fixes to a flat surface with four screw points arranged in a 98mm by 39mm rectangle.

Minimal mount area:	110 mm x 75 mm
Mount screw max. shank / thread diameter:	4.4 mm
Mount screw head diameter:	Between 5.0 mm and 6.4 mm
Mount screws pattern:	Rectangle 98 mm x 39 mm



Mount screws are placed through the mounting holes from inside the enclosure.



Consider the mounting surface material and use the appropriate type of mounting screws. Make sure that all sides are torqued approximately to the same amount to avoid enclosure flex and strain.

3. Power Supply Considerations

DC power supply (circuit-breaker):

The DC input terminal is protected by an internal 160 mA fuse with a rated breaking capacity of 100A at 24 VDC. So it's strictly not necessary to protect the device with an additional external circuit breaker but it's highly recommended. Since the internal fuse is not replaceable and in an over current event the whole device has to be replaced.

AC power supply (circuit-breaker):

The AC power supply has an integrated T1A slow blow fuse. However it's necessary to protect the device with an additional external circuit breaker. Recommended AC circuit breaker parameters:

Type:	1P
Rated voltage:	230 VAC
Rated current:	1 A
Rated breaking capacity:	1500 A

Cable specification:

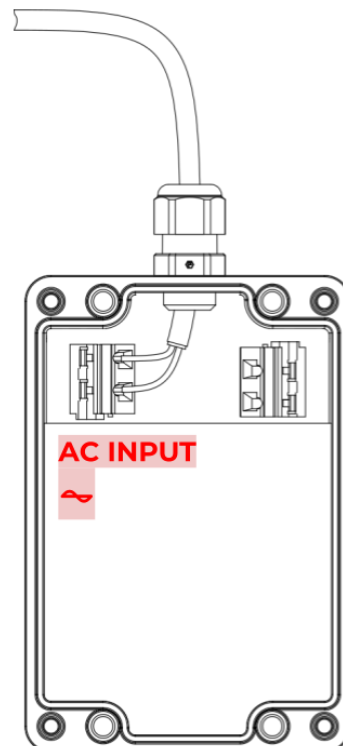
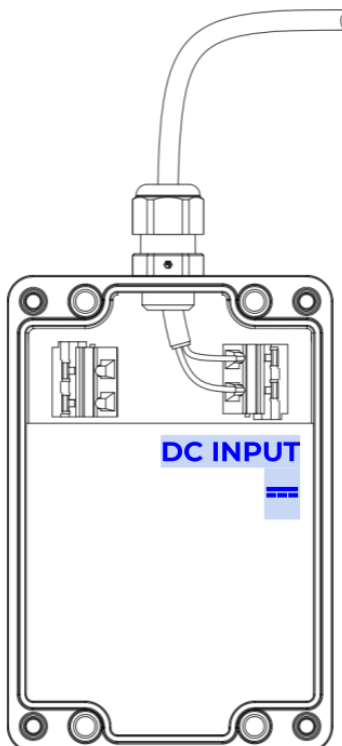
Cable number of cores (AC/DC):	2
Conductor type:	Solid or fine stranded with insulated ferrule
Conductor minimum cross-section:	0.75 mm ²
Conductor maximum cross-section:	2.5 mm ²
Cable recommended cross-section:	2.0 mm ²
Cable outer minimum dimension:	2.0 mm
Cable outer maximum dimension:	5.0 mm
Cable outer recommended dimension:	5.0 mm

Input terminals:

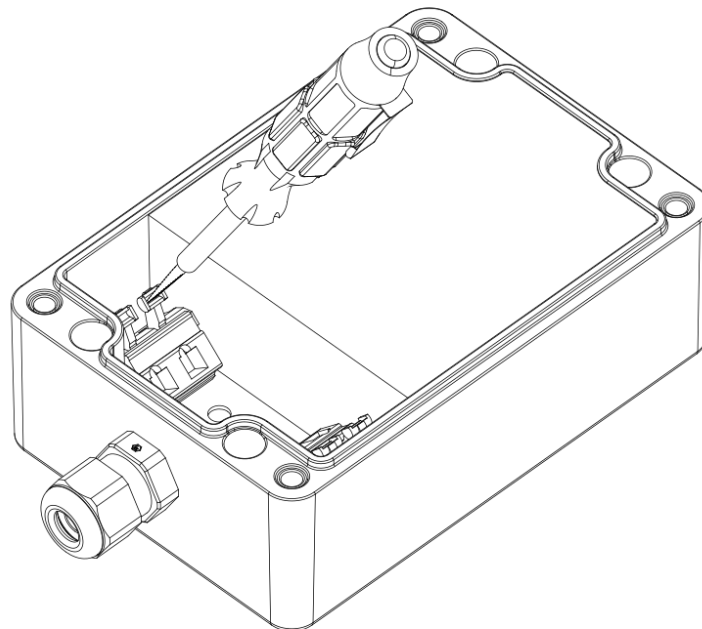
Spotsie Gateway device does not come with a cable, so it's up to the installer to ensure the power supply cable complies with the specification given above, is properly mounted through the cable gland and connected to the correct input terminal.

ATTENTION:

As this device has the ability to be powered by both **DC** and **AC** voltages, it's necessary to connect the cable to the correct input terminal.



Once the correct input terminal has been identified, unscrew the cable gland cap and thread the cable through the cap, sealing ring and cable gland body. Strip the outer cable insulation to about 0.5 cm after the cable exits the cable gland. Strip the two individual cores and install an insulated ferrule in a case of a fine stranded core cable. To insert the wire into the input terminal use a flat head screwdriver to push and hold the input actuator arm down. This will release the clamp and the wire can be pushed in as far as possible. See figure below.



4. Final Assembly

After connecting both wires to the correct input terminal, make sure the push actuators are properly released and the wires are clamped firmly. Adjust the length of the cable inside the enclosure and proceed to tighten the cable gland cap, clamping the cable in place. Make sure the cable gland sealing ring sits properly and has not warped during tightening. After that the enclosure cover can be tightened back on with 1.5 - 3.0 Nm torque, while making sure the enclosure gasket sits properly. Perform a final visual inspection of the seals on the cable gland and the enclosure cover. Make sure the whole device is firmly mounted and it is safe from potential impacts.