



nke WATTECO 50-70-124 Toran'O Atex zone 1 Puls Counting Sensor User Guide

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nke WATTECO 50-70-124 Toran'O Atex zone 1 Puls Counting Sensor



Recommendations for use

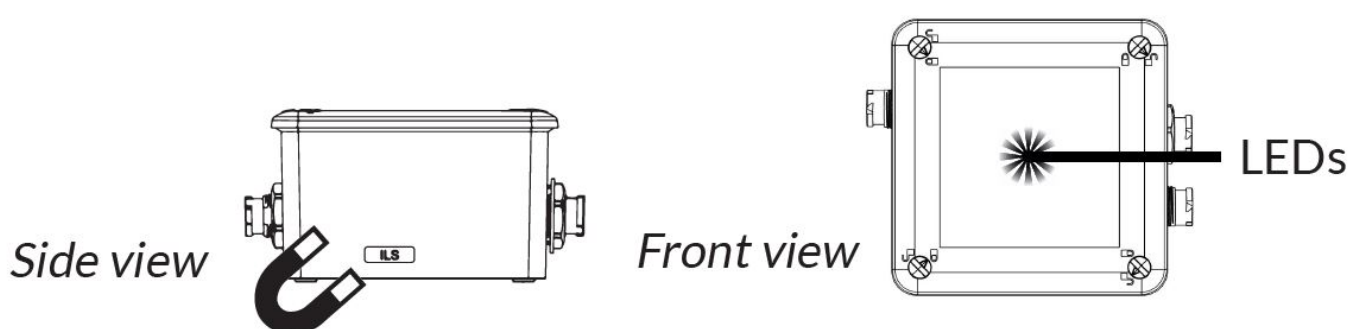
The use of accessories:

Installation, maintenance, and use must only be carried out by personnel who are competent in the use of electrical equipment in explosive atmospheres as defined in EN 60079-14. Any repair or modification is strictly prohibited without the written permission of Nke Watteco. Risk of electrostatic discharge: The user must implement any action to control the risks of electrostatic discharge, especially by cleaning the product only with a damp cloth.

USE ONLY SAFT-TYPE LS17500 BATTERIES.

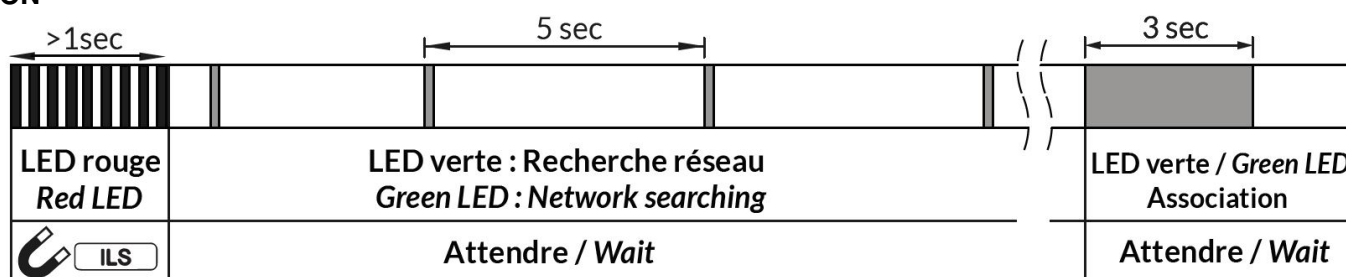
Only the use of accessories in accordance with the intrinsic safety parameters is permitted.

Start

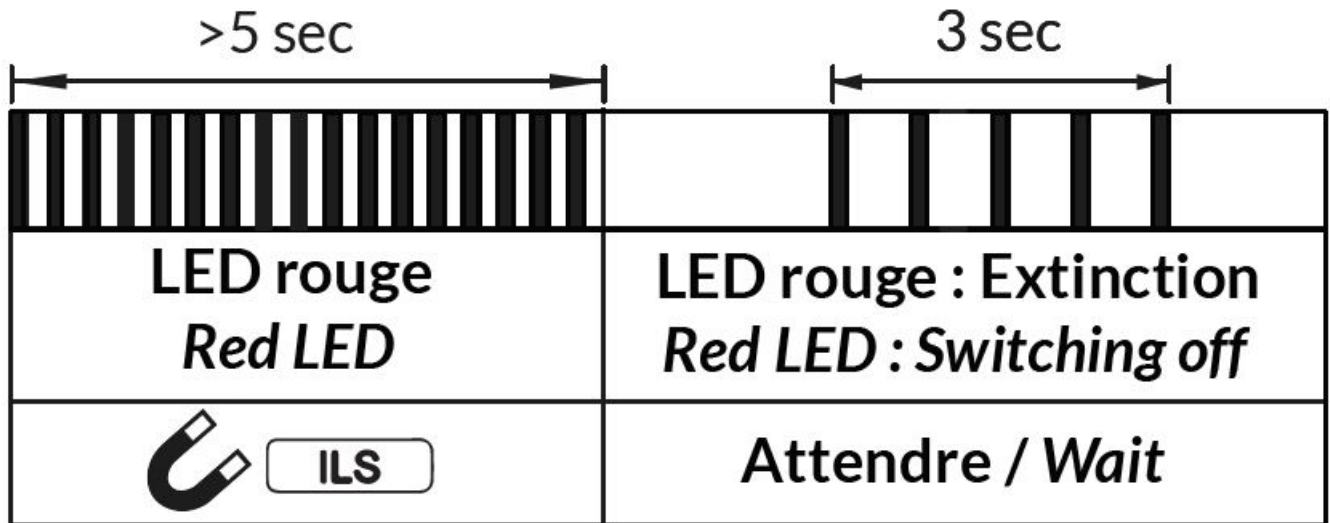


Provision the device on your LoRaWAN network with the keys available on the secure platform.

ON



OFF



<https://www.watteco.fr/assistance/tutoriels-video/>

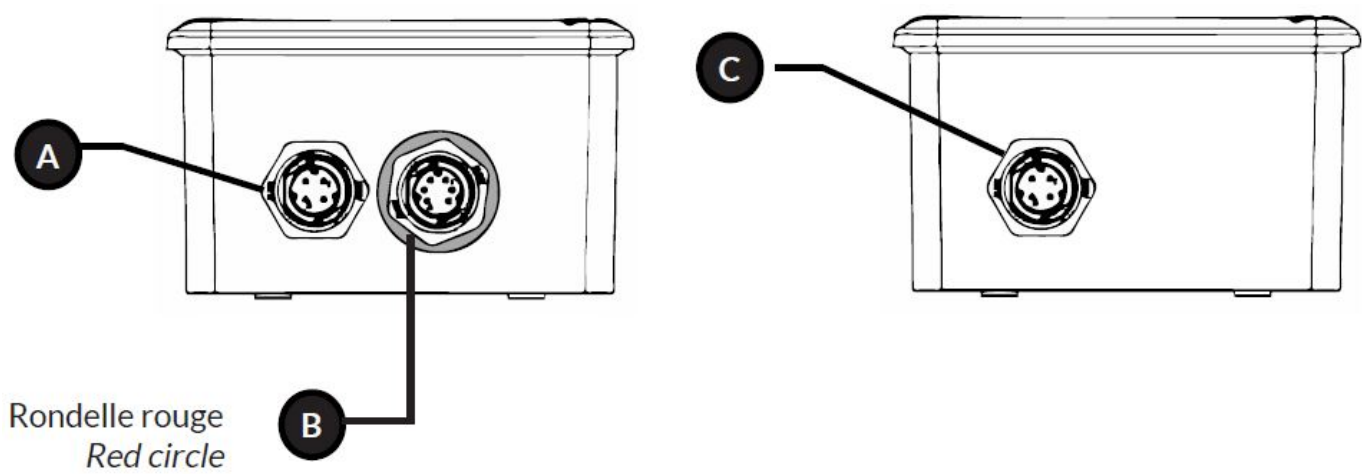
Connectiques Connectors

	Connecteur A : 4 points <i>Connector A: 4 points</i>		Connecteur B : Rondelle rouge : 6 points <i>Connector B: Red circle: 6 points</i>		Connecteur C : 6 points <i>Connector C: 6 points</i>	
	Connecteur <i>Connector</i>	Paramètres SI <i>IS parameters</i>	Connecteur <i>Connector</i>	Paramètres SI <i>IS parameters</i>	Connecteur <i>Connector</i>	Paramètres SI <i>IS parameters</i>
	4-20 mA		0-5V		S0	
						Uo = 6,33V

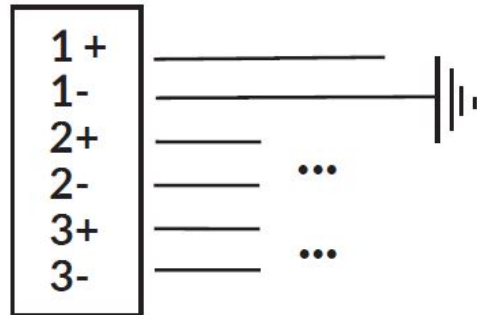
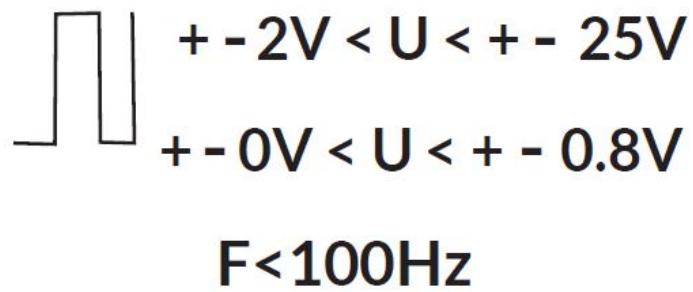
Toran'O Atex Zone 1 IP55 : [50-70-124]	P1 : OUT – V+ [~14Vdc@20mA] P2 : GND	Uo = 18,9V Io = 91mA Po = 430 mW Co = 1,6μF [IIB]	P1: OUT – V+ [~5,5Vdc@5mA] P2: GND P3: IN-Measure 1	Uo = 6,51V Io = 67mA Po = 108 mW Co = 500μF[IIB],	P1: INPUT 1 P2: GND P3: INPUT 2	Io = 33μA Po = 23μW Co = 650μF[IIB], Co = 28μF[IIC] Lo = 1H [IIB],
IP68 : [50-70-150]	P3 : IN-Measure	Co = 262nF [IIC]	P4: GND	Co = 22μF[IIC]	P4 : GND P6: INPUT 3	Lo = 1H [IIC] Ui = 25V
	P4 : NC	Lo = 17mH [IIB] Lo = 4mH [IIC]	P6: IN-Measure 2 P7: GND	Lo = 33mH [IIB], Lo = 8mH [IIC]	P7: GND	li = 450mA Ci = 3,3nF Li ~ 0
						Uo = 6,33V
					P1: INPUT 1	Io = 33μA
					P2: GND	Po = 23μW Co = 650μF[IIB],
Pulse Sens'O Atex zone 1					P3: INPUT 2	Co = 28μF[IIC]

IP55 : [50-70-123]		P4: GND	$L_o = 1H$ [IIB] , $L_o = 1H$ [II C]
IP68 : [50-70-152]		P6: INPU T 3	$U_i = 25V$
		P7: GND	$I_i = 450mA$
			$C_i = 3,3nF$
			$L_i \sim 0$

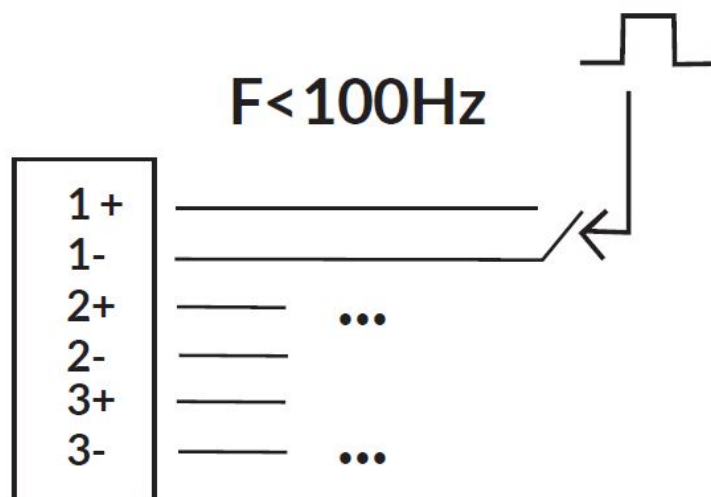
A, B, and C refer to the connectors in the table on the previous page



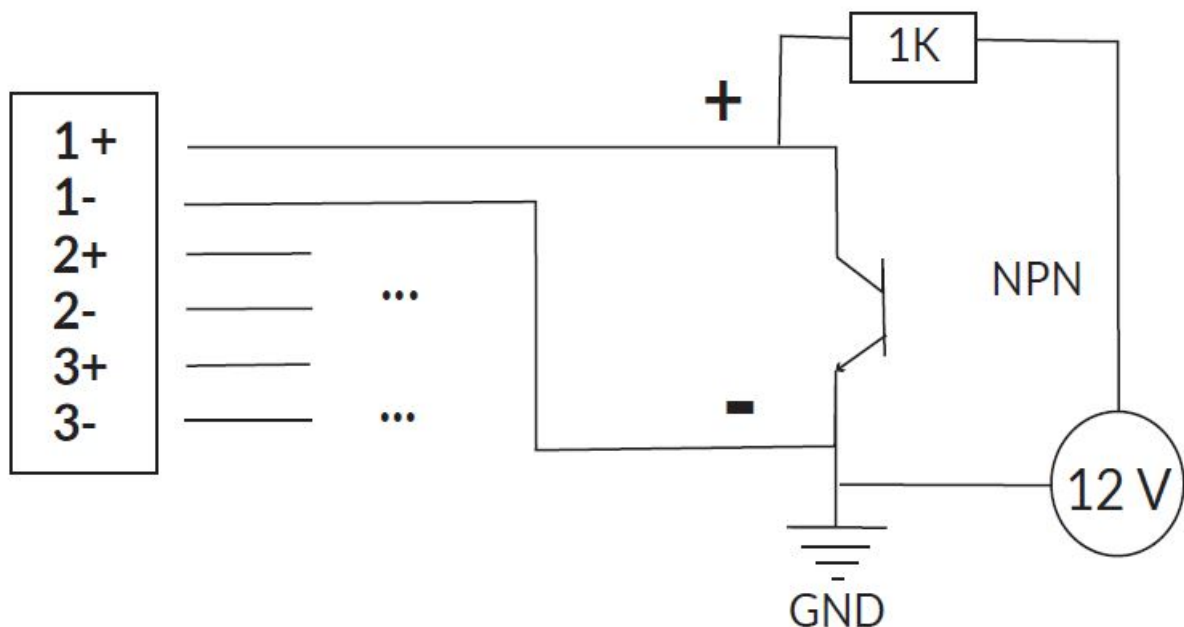
Output Signal:



Contact sec: Dry contact:



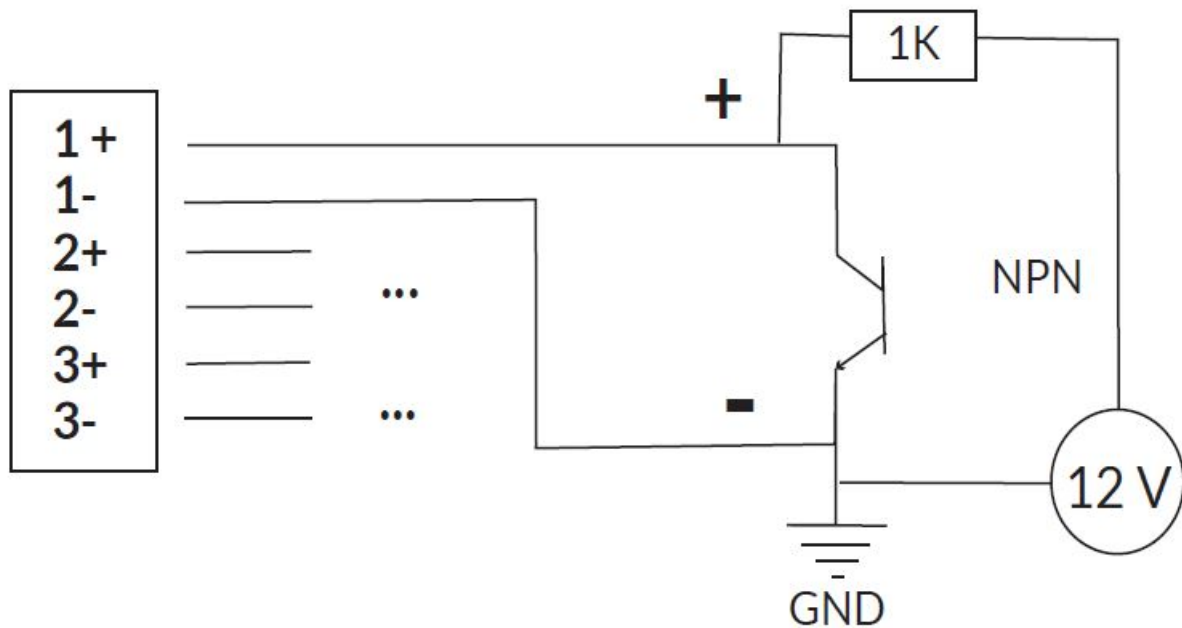
Sortie collecteur ouvert NPN Open collector output NPN



Compatible with a voltage of 3V and a current of 3uA.

NPN Open Collector:

Others, need to connect a compatible AtEx zone 1 external power supply with a resistor to limit the current. The below example is given with an external 12V power supply.



Marking

Pulse Sens'O sensors are certified according to the harmonized standards EN60079-0 ed. 6 and EN60079-11 ed.6 (EU Type Examination Certificate DEKRA20ATEX0017 X)

Pulse sens'O

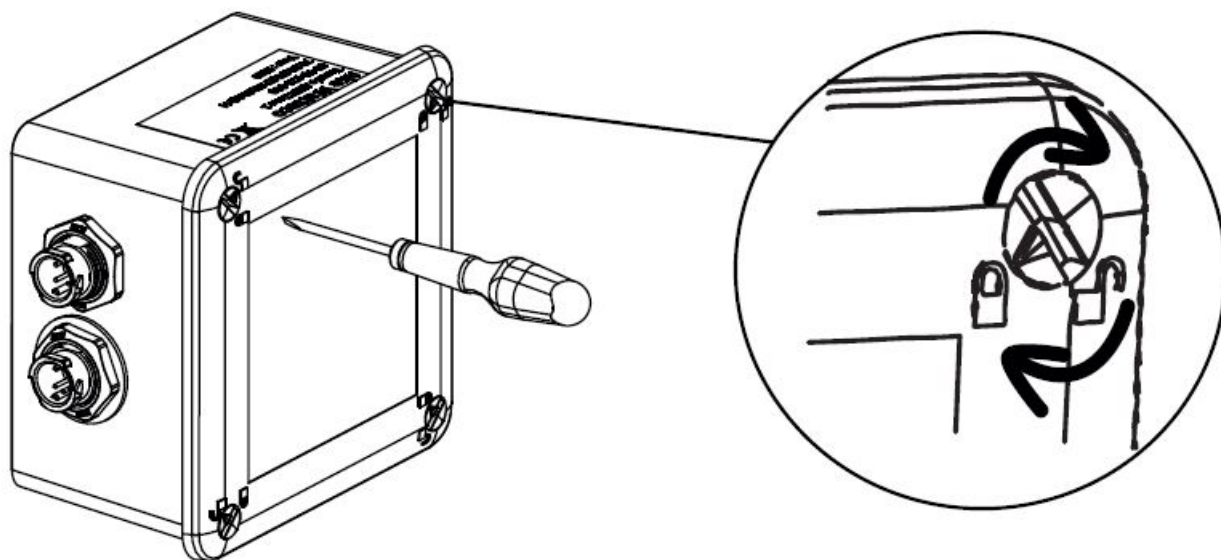
- 0344 II 2 GD
- Ex ib IIB, IIC T4 Gb
- Ex ib IIIC T135°C Db -20 ≤ Tamb ≤ +50°C
- DEKRA 20ATEX0017 X

WARNING: DO NOT CHANGE THE BATTERY IN AN EXPLOSIVE ATMOSPHERE – ONLY USE TYPE OF BATTERY SAFT LS17500 – POTENTIAL ELECTROSTATIC CHARGING HAZARD – INTRINSIC SAFETY PARAMETERS FOR CONNECTORS – SEE INSTRUCTIONS NKE WATTECO – RUE GUTENBERG – 56700 HENNEBONT – FRANCE

WARNING: DO NOT CHANGE THE BATTERY IN EXPLOSIVE ATMOSPHERE – ONLY USE TYPE OF BATTERY SAFT LS17500 – POTENTIAL ELECTROSTATIC CHARGING HAZARD – INTRINSIC SAFETY PARAMETERS FOR CONNECTORS – SEE INSTRUCTIONS NKE WATTECO – RUE GUTENBERG – 56700 HENNEBONT – FRANCE

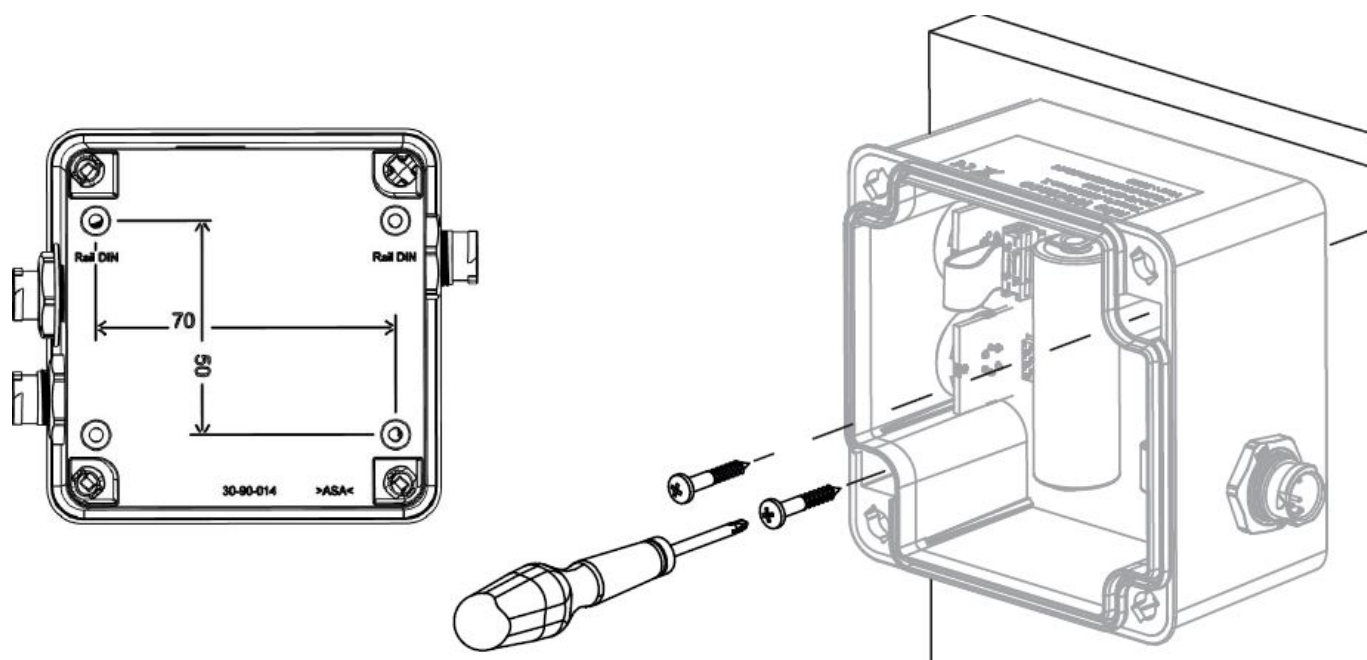
Installation Setting up

Opening / Closure



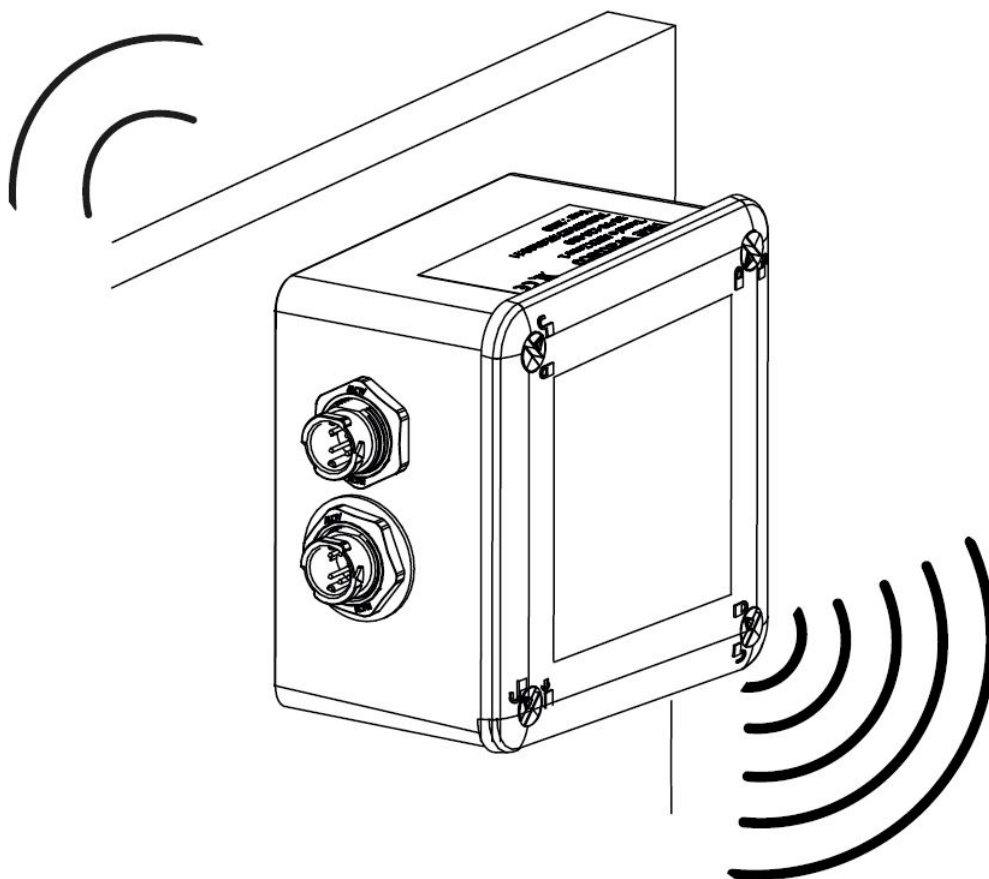
Unscrew the 4 screws by $\frac{1}{4}$ turn

Montage mural Wall mounting

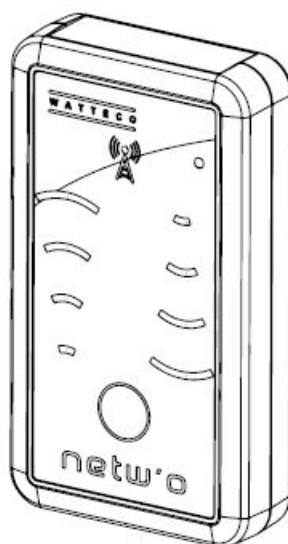


Place the dowels and screw the housing to the wall

Radio propagation



Check the radio coverage with the Netw'O.



For the sensor communicates correctly, the number of obstacles should be limited to avoid excessive radio attenuation.

Characteristics

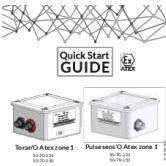
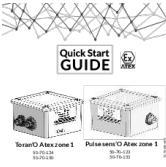
Reference	50-70-124	50-70-150	50-70-123	50-70-152
Class	A		A	
Power Level	+14 dBm		+14 dBm	
Measures :	Input S0 4-20mA / 0-5V		Input S0	
Antenna	Internal		Internal	
Casing materials	ASA / PC		ASA / PC	
IP rating	IP55	IP68	IP55	IP68

SITE SUPPORT



<https://support.watteco.com/>

Documents / Resources

	nke WATTECO 50-70-124 Toran'O Atex zone 1 Puls Counting Sensor [pdf] User Guide 50-70-124, 50-70-123, Toran O Atex zone 1 Puls Counting Sensor, Puls Counting Sensor, Counting Sensor, 50-70-124, Toran O Atex zone 1, Sensor
	nke WATTECO 50-70-124 Toran'O Atex Zone 1 Puls Counting Sensor [pdf] User Guide 50-70-124 Toran O Atex Zone 1 Puls Counting Sensor, 50-70-124, Toran O Atex Zone 1 Puls Counting Sensor, Zone 1 Puls Counting Sensor, Puls Counting Sensor, Counting Sensor, Sensor

References

- [W support.watteco.com/](http://w.support.watteco.com/)
- [W Download Center - WATTECO](#)
- [W Download Center - WATTECO](#)
- [W Concepteur et fabricant de capteurs transmetteurs radio connectés IoT - WATTECO](#)
- [W Centre de téléchargement - WATTECO](#)

[Manuals+](#).