



DATASHEET TAG BATT ILLUM OUTDOOR – P/N° 7V2475.47

TAG BATT ILLUM with Junction box



Box Tag standard Junction box
with "TAG BATT ILLUM"



INQUISITIVENESS

The TAG BATT ILLUM is the device of the innovative LETIsmart system, that allows communication between city and the VOCE white cane, usually supplied to blind / visually impaired citizens.

Bi-directional communication allows the user to receive audio information from the cane about surrounding area and interact with the TAG itself; in fact, the TAG has been studied to allow the visually impaired people to find their own streets, squares, buses, shops, hospitals. The system allows to activate the directional sound of the beacon (LETIsmart TAG), to be guided to the exact point.

The radio interface sends the encrypted communication on the 868MHz LoRa band to make the system safe and it uses a dedicate protocol, in order to avoid overlap between the devices.

The electronics is the result of a precise and in-depth engineering study, that has led to a significant miniaturization of the electronic circuit; it is usually integrated with a quick cable entry in the junction box IP56 130x90x60mm Gewiss type 44 CE series, or GWPLAST120 series, recommended for industrial use.

During the day the device is supplied by a Lilon 3.7V 2,5 Ah battery, while in the evening it is powered by the primary public lighting from a 2-pole cable (2,5mmq 450/750 3H1,5) or from a 3-pole cable (1,5mmq 0,6/1kV) at night.

For proper operation replace the batteries every 4-5 years.

SUPPORTED LANGUAGES



RECOMMENDATIONS

- For a correct use it is required a proper training by a qualified Orientation & Mobility specialist
- Any replacement, updates, installation or maintenance must be carried out by an authorized LETIsmart service center.

TECHNICAL FEATURES

Power supply	-100-240V AC 50-60Hz 0.08A -Batteria ricaricabile 14500 li-ion 800mAh 3.7V 295Wh
Energy consumption (stand-by)	200mbW (phrase transmission and waiting for VOCE commands)
Energy consumption (active)	1.8W (active sound system)
Radio connection	Wireless LoRa
Transmission band	ISM – 868MHz
Connector	Screw terminal blocks for buzzer and power
TAG sound system	External buzzer for connection to the dedicated terminal block
Buzzer volume level	Configurable (Max 69db/m)
Buzzer sound frequency	2730Hz
VOCE must be set in these modes to recognize the TAG	-Urban information -Urban and commercial information
Operating temperature	-20°C, +60°C
Material (box)	-Self-extinguishing technopolymers GWPLAST 75 -Protection rating IP 56

COMPLIANCE

- **2014/53/EU RED** relating to the making available on the market of radio equipment.
- **EN 300 220-1 SRD + EN 300 220-2 V3.1.1** operating in the frequency range 25 MHz to 1 000 MHz.
- **EN 301 489-1** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services.
- **EN 301 489-3** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz.
- **EN/IEC 62368-1:2014 +AC 2015** Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- **EN/IEC 62479:2010** Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).
- **IPC A 610 G Class III** assembly standards, ESD conformity CEI EN 61340 5 1, J STD 001 and J STD 033.
- **2015/863/EU RoHS III** (leadfree) Directive e Conflict Minerals Policy
- **Reach 1907/2006/EU_reg453/2010/UE SVHC** art31 Registration, Evaluation, Authorization and Restriction of Chemicals.
- Perfectly integrated with systems for overcoming perceptual barriers Art. 1.2 comma C) D.P.R. 24 luglio 1996 n°503 e art. 2.a comma C) del DM 14 giugno 1989 n°236.