



DATASHEET TAG PANNELLO SOLARE (SOLAR PANEL) – P/N° 7V2475.42/43

APPEARANCE and MOUNTING EXAMPLE OF THE TAG



Fixing brackets code

Code: 7V2475.42
 Brackets for pole with two straps
 Code: 7V2475.43
 Wall brackets with four screws
 Code: 7M2475.44
 Option brackets to 45°



INQUISITIVENESS

The “PANNELLO SOLARE” TAG (SOLAR PANEL) is the device of the innovative LETsmart communication system between beacons (LETsmart TAG) and the white cane LETsmart VOCE, usually supplied to blind / visually impaired citizens.

Bi-directional communication allows the user to receive audio information (address or custom name / phrase) about the bus pole or building, equipped with the LETsmart system, from the cane and to INTERACT with the beacon itself.

The system therefore allows to activate the directional sound of the beacon, in order to guide the user to the exact point of the bus stop and / or entrance of a building (hospital, public office, shop, own house).

The radio interface sends the encrypted communication on the 868Mhz LoRa band to make the system safe and it uses a dedicated protocol, to avoid overlapping between the devices.

The electronics is the result of a precise and in-depth engineering study, that has led to a significant reduction of electricity consumption of the device.

The TAG is located in a IP55 case (2 colours: 7V2475.42 white ASA and 2475.43 black ABS) and it is equipped with a solar panel and a built-in battery in order to exploit the renewable energy of the sun and to not stop working at night.

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 LETsmart service center

TECHNICAL FEATURES

Solar panel power	5W
Vbatt	6VDC (5 batt. Ni-MH 2,2 Ah)
Consumption	12mW
Radio connection	Wireless LoRa
Transmission band	ISM – 868MHz
TAG sound system	In-circuit integrated buzzer with directional sound to reach the TAG
Buzzer volume level	Configurable (Max 69db/m without case)
Buzzer sound frequency	2730Hz
Learning mode between TAG and VOCE cane	-Urban and commercial information -All information
Size & weight TAG	110x150x27mm & 400gr
Temp. di esercizio/colore	White=-10°C, +60°C Black=-10°C, +50°C
IP rating	IP55 (Ref. EN60529)
Final code 7V2475.xx colour / material	.42=Bianco = ASA-UL94V-HB UV resist .43 =Nero = ABS-UL94-V-0 flame resist

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 60950-22:2006 + AC:2008 Information technology equipment - Safety - Part 22: Equipment to be installed outdoors.
- EN/IEC 62368-1:2014 + AC 2015 Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- EN/IEC 60529:1991 Degrees of protection provided by enclosures (IP Code).
- 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.
- Reach 1907/2006/EU_reg453/2010/UE SVHC art31 Registration, Evaluation, Authorisation and Restriction of Chemicals.
- Conflict Minerals Policy Statement.