



DATASHEET LETsmart TAG SEMAFORO – P/N° 7V2475.60

DID YOU KNOW...

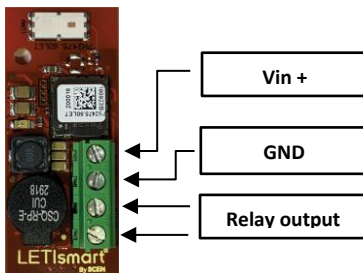
The TAG SEMAFORO is the device of the innovative LETsmart system that allows communication between sound traffic lights and the white cane usually supplied to blind / visually impaired citizens integrated by the LETsmart VOCE system. Bi-directional communication allows the user to receive audio information from the cane about the references of the pedestrian crossing and to INTERACT with the traffic light itself, ALL from its white cane. In particular, the system allows you to activate the directional sound of the device (LETsmart TAG) to be guided to the exact crossing point, and, above all, it allows you to activate the sound traffic light to the next cycle with green light too WITHOUT looking for the pole and / or the button. This reduces the risks for the user to end up in the middle of the busy roadway and cancels the time to look for the booking button, avoiding getting dirty. The radio interface sends the encrypted communication on the 868Mhz LoRa band to make the system safe and uses a dedicated protocol to avoid overlapping between the devices. Electronics is the result of a precise and in-depth engineering study that has led to a significant miniaturization of the electronic circuit in order to adapt it to even the smallest mechanical boxes on sale with zero visual impact and minimum size, without affecting its weight.

SUPPORTED LANGUAGES



LAYOUT AND CONNECTIONS OF THE TAG SEMAFORO

ELECTRICAL CONNECTIONS



7B2475.61- FIXING MECHANICS ON ZEBRA PUSH BUTTON



7B2475.62 - FIXING MECHANICS ON THE PLS03 BUTTON PANEL



7V2475.65 FOR ACTIVATION FROM THE VOCE WITHOUT MANUAL CONTACT



Mechanics in self-extinguishing ABS designed for fixing without screws inside the button panel.

ADVICE

- For a correct use, a training by a qualified Orientation and Mobility instructor is required.
- Any replacement, updates, installation or maintenance must be carried out by an authorized LETsmart service center by LA SEMAFORICA S.r.l .

TECHNICAL FEATURES

Power supply	12-24Vdc (with peak protection)
Energy consumption (stand-by)	200mW (phrase transmission and waiting for VOCE commands)
Energy consumption (active)	600mW (active sound system)
Radio connection	Wireless LoRa
Transmission band	ISM – 868MHz
Connector	4-pole screw terminal connector
Traffic light connection	Relay output
Relays technical features	Vmax=40Vdc – Imax=150mA
Compatible relay type	Solid-state relay
Pulse timing	Configurable
Adviser activation	
TAG sound system	In-circuit integrated buzzer with directional sound to reach the traffic light
Buzzer volume levels	Configurable (Max 85dB at 10cm without box). +5db on ambient noise.
Buzzer sound frequency	2730Hz
Buzzer timing	ON 20ms, OFF 230ms, OFF 2s – Total "sequence" duration 20s. Sequence is repeated 5 times when booked by the first VOCE, 7 times by the second.
Traffic light reservation sound system	Sound system integrated into the sound traffic light
VOCE must be set in these modes to recognize the TAG	- Urban information - Urban and commercial information
Traffic light mode	- Single traffic light crossing - Traffic light group
PCBA size and weight	54,2x23,2x1,6mm; 15gr

COMPLIANCE

The manufacture is compliant with:

- ETSI EN 300 220-1 V3.1.1 + ETSI EN 300 220-2 V3.1.1 for the radio transmission part (RED).
- ETSI EN 301 489-1 V 1.9.2 + ETSI EN 301 489-3 V 1.6.1 for electromagnetic compatibility.
- Electromagnetic compatibility: 2014/30/EU.
- EN/IEC 62368-1:2014 + AC2015.
- EN 50385:2017
- 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, Authorization and Restriction of Chemicals.
- Conflict Minerals Policy Statement
- The TAG does not alter the characteristics of the traffic light panels which comply with the following standards: CEI 214-7 e 214-7-VI; Legge n. 447 del 26/10/1995; DPCM del 14/11/1997; D.P.R. del 24/07/1996 n. 503 codice della strada; UNI EN 12368/2006.