



Description of

# UKOPLX1004QDU

	For review by:		
Issue	No. 1	Date 21/09/06	
Description of Revision	Rev. 3	Date 28/01/07	Prepared: A. Piccioli Approved:
			

## 1. TAG DUALFREQUENCY UKO PLX1004QDU

Normally off, it activates in the area of influence of the UKOPLX2101FHU illuminator. In reply, it transmits its own code preceded by the code of the illuminator in whose area the TAG was activated, at a reply frequency of 433MHz. Equipped with replaceable lithium battery, it has an endurance of over 100,000 transmissions.



**UKOPLX1004QDU**

The activation range at 2.45 GHz under the UKOPLX2101FHU illuminator is about 12 meters in free area; the transmission at 433 MHz to the receiver UKOPLX2002, compliant with ETSI EN 300-220, can vary between 40 meters and 60 meters in free area.

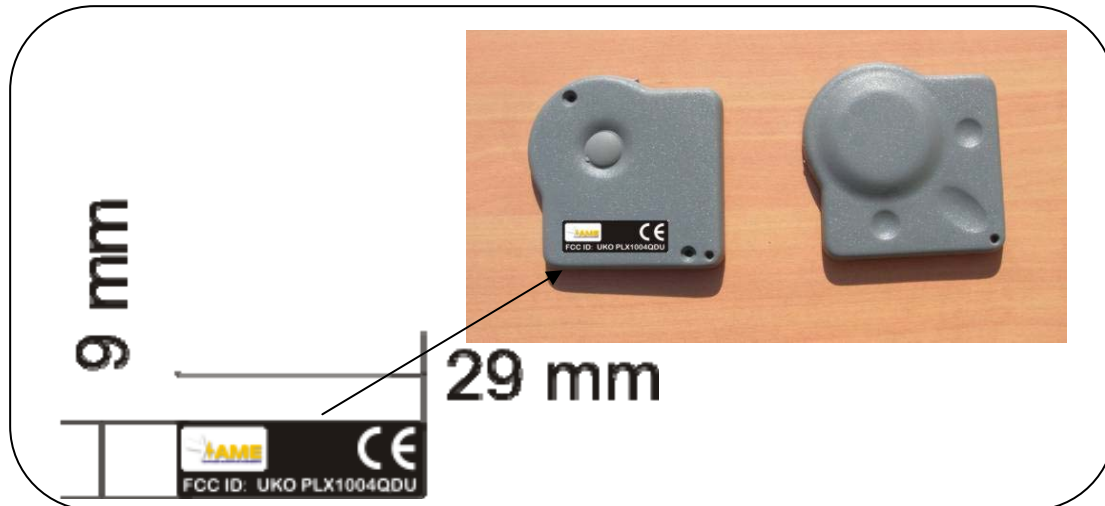
### Mechanical Characteristics

<i>Parameter</i>			
<b>External dimensions (L x H x P)</b>	95 mm	56 mm	9 mm
<b>Colour</b>	White		

### Wiring for UKOPLX1004QDU

The system is self-powered and requires no wiring.

## POSITION OF LABEL



## 2. CHARACTERISTICS

### Mechanical characteristics

<i>Parameter</i>			
External dimensions (L x H x W)	95 mm	56 mm	9 mm
Protection rating	IP20		
Colour	White, customized on request		

### UKOPLX1004QDU

<i>Parameter</i>			
External dimensions (L x H x W)	55 mm	55 mm	12 mm
Protection rating	IP20		
Colour	White, grey, black, customized on request		

### Electrical characteristics

<i>Parameter</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max.</i>
Duty cycles			>100,000
Input supply voltage(Vcc) 3 V (mod. Lithium battery.) 2032)	2.7V	3 V	3.3 V
Power consumption			
Active in TX RF			25 mA
Active in RX MW	4 mA		
Standby		1.5 $\mu$ A	
Total			25 mA

## Environmental specifications

<i>Parameter</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max.</i>
Temperature range for operation	-10 °C		+60 °C
Temperature range for storage	-55 °C		+125 °C
Humidity	--	--	--

## Radio Frequency Specifications

### 433 MHz. transmitter

<b>Band</b>	European ISM 433
<b>Operating frequency</b>	433.92 MHz
<b>Data transfer type</b>	Unidirectional
<b>Modulation</b>	OOK / AM
<b>Coding</b>	Manchester
<b>Bitrate</b>	4800 bps
<b>Outdoor range min</b>	30 m
<b>Output power max</b>	-14 dBm e.i.r.p.

Complies with FCC 15.231 standards

### 2.45 GHz receiver

<b>Band</b>	2400 – 2483 MHz
<b>Operating frequency</b>	-
<b>Data transfer type</b>	Unidirectional
<b>Modulation</b>	OOK / AM
<b>Coding</b>	Manchester
<b>Outdoor range</b>	8 m
<b>Rx sensitivity</b>	-35 dBm