

2 / 4 CHANNELS KEYFOB OOK TRANSMITTER HCS Rolling Code 433.92 MHz

Product Code: **32001369 / 32001369A**



DESCRIPTION:

HCS rolling code RF transmitter, based on SAW resonator technology. Ideal for remote control application. By pressing the key the device transmits a unique coded data stream.

HIGHLIGHTS:

- OOK modulation.
- 2 / 4 channels.
- 12V alkaline battery power supply.
- Led indicator with low battery detection and indication.
- Developed according to **ETSI EN 300 220** European Standard.
- The module meets with the Radio Equipment Directive (**RED**) **2014/53/EU**.
- Compliant with **REACH** and **RoHS** directives.

APPLICATIONS:

General-purpose remote control and command applications.



MECHANICAL CHARACTERISTICS

Length	66.5 mm
Width	38.5 mm
Height	16.5 mm
Weight	25 g

TECHNICAL INFORMATION

Power Supply	66.5 mm 12V alkaline battery (V23GA, 23A, A23, 23GA, GP23A, L1028, V23, 23AE, MN21)
Transmission Current	28 mA
Operational Frequency Band	433.050 ÷ 434.790 MHz (Band G1)
Maximum Radiated Power	8 mW ERP
Number of Channels	2 (32001369A) / 4 (32001369)
Encoding	HCS Rolling Code
Operating Temperature	-10 ÷ 55 °C
Device Class	1

OPERATING MODE

The LED lights up with fixed light during the code transmission. If the battery is exhausted, the LED will flash during transmission: **replace the battery**.

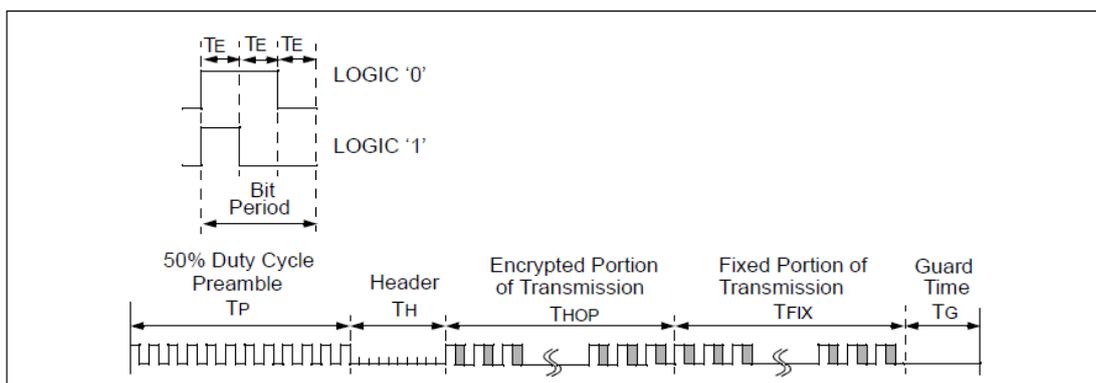
CAUTION!

Danger of explosion if the battery is replaced with non-approved type (V23GA, 23A, A23, 23GA, GP23A, L1028, V23, 23AE, MN21).

For disposal of the battery, comply with regulations in force.

HCS RADIO FRAME CHARACTERISTICS

Parameter		Min.	Typ.	Max.	Unit
Time base	Te	350	400	450	µs
PWM pulse width	3*Te	1050	1200	1350	µs
Preamble duration	Tp	8.0	9.2	10.4	ms
Header duration	Th	3.5	4.0	5.4	ms
Pause between frames (guard time)	Tg	14.0	16.0	18.0	ms

Radio Frame Structure:

Frame Organization:

MSb	34 bits of Fixed Portion						32 bits of Encrypted Portion						LSb		
	Repeat (1 bit)	VLOW (1 bit)	Button Status (*)			Serial Number (28 bits)	Button Status (*)			OVR (2 bits)	DISC (10 bits)	Sync Counter (16 bits)			
			S2	S1	S0	S3		S2	S1	S0	S3				

(*): in 32001369A only S0 and S1 buttons are used.

REVISION HISTORY

Revision	Date	Description
1.2	27-08-2019	Final release