

# 2.4 GHz Telecommand Unit

## KST2.4S / KSR2.4 2.4 GHz

The KST2.4S and KSR2.4 are telecommand units that allow the transmission and reception of upto 6 switching signals in the 2.4 GHz band. The CRC-16 error detection achieving Hamming distance of 6 allows reliable switching signal transmission with frequency hopping to minimise interference from other radio systems on the 2.4 GHz band. There is no need to manage any channels, and multiple operation in the same area is possible. In addition, communication with separate NK-2.4Y telecommand radio module is possible.

Both KST2.4S and KSR2.4 display a LINK LED allowing the user to monitor communication status.

The units have a wide operating voltage range of 6 to 24 V.

### Features

- 6 inputs (KST2.4S) / 6 outputs (KSR2.4)
- 3 output operation modes (One-shot, Toggle, Momentary)
- Communication LOS: 100 m
- 1:1 communication with KST2.4S and KSR2.4
- Includes a wiring harness to allow easy interface to user equipment.
- FCC Part 15 and ARIB STD-T66 compliant RF module (NK-2.4Y) included.

### Applications

- Remote control applications
- Start / Stop control for motor operated equipment
- Monitor and alarm system with threshold level control for sensors



### Common

Parameter	Specification	Remarks
Applicable standard	FCC Part 15 ARIB STD-T66	NK-2.4Y included
Communication method	Frequency hopping, Simplex	Two-way, between paired units
Communication range	100 m	Line of sight
Communication mode	1:1	(Input mode: Output mode)
Frequency	2403 to 2479 MHz	Frequency Hopping
RF output power	Max 1.6 mW	
Communication bitrate	250 kbps	
Hamming distance	6	
Input / Output response	30 to 60 ms	
RF connector	RP-SMA	Nominal 50 ohm
Operating temperature	-20 to +60 C	
Supply Voltage	DC 6 to 24 V	
Dimension	55 x 45 x 12.5 mm	
Weight	26 g	

### KST2.4S

Parameter	Specification	Remarks
Number of Input / Output	Input 6 Link output 1	
Input circuit	Input ON voltage : DC 6 to 35 V	
Current consumption	Max 30 mA	

### KSR2.4

Parameter	Specification	Remarks
Number of Output	Output 6 Link output 1	
Output relay	Max 35 V, 200mA	DC
Current consumption	Max 80 mA	All output ON No load

Specifications are subject to change without prior notice