

# Joystick radio remote control

# Kappa



KAPPA mod. 45  
( on-off or proportional )

## Main features

The KAPPA radio remote control can be used in several different application fields, in particular for lifting, material transport, and industrial applications, for example building cranes, overhead travelling cranes, operating machines, etc.

KAPPA is a **safety industrial radio remote control** in compliance with Machinery Directive 2006/42/EC that implements advanced Safety Functions according to standard EN13849 i.e. **Ple category Safety Stop command**.

The ergonomic, sturdy (IP65) transmitter is provided with removable battery packs, which can be easily inserted and removed. It is also equipped with a comfortable padded belt or a shoulder strap.

The transmitter is equipped with two on-off or proportional dual-axis joysticks as well as various auxiliary controls, such as toggle switches and push-buttons. Moreover, it is equipped with a Safety STOP command and START command.

*It is possible to have a larger number of commands (joystick and auxiliary commands) with the KAPPA2 version (see relative data sheet).*

The receivers, available in two different size versions ('SMALL' and 'MEDIUM'), have up to 36 relay outputs and 8 proportional outputs and are equipped with DC and AC power supply.

The radio connection is at 869 Mhz in a free use band in accordance with 'RED' Directive 2014/53/EU.

**Special versions to customer specifications are available** in addition to the standard versions of the transmitters (see 'Versions').



## Main technical features

Operating frequency	869,725 ÷ 869,975 Mhz
Number of radio channels	11
Operating range	100 m approx.
Manual STOP command safety category	EN 13849-1:2015, category 3, Ple
Automatic STOP command safety category	EN 13849-1:2015, category 4, Ple
Prevention of unforeseen start-up safety category	EN 13849-1:2015, category 3, PLd

## Transmitters

### Standard versions

- LK0MA45 ( Kappa 45 On-Off ) 4 axes - 5 auxiliaries
- LK0MA44 ( Kappa 44 On-Off ) 4 axes - 4 auxiliaries
- LK0MB45 ( Kappa 45 Proport. ) 4 axes - 5 auxiliaries
- LK0MB44 ( Kappa 44 Proport. ) 4 axes - 4 auxiliaries

### Special versions

- LKOMsxxx (Special Kappa) xxx = customer-specific version

### Technical features

R.F.power	≤ 5 mW ERP
Antenna	Internal
Power supply	3,6 Vcc nom.
Battery packs	Ni-Mh battery pack
Continuous service autonomy	8÷10 hours
Working temperature range	-20°C ÷ +55°C
Protection degree	IP65
Case	PA
Weight	1,4 Kg

### Dimensions (in mm)



## Receivers

### Versions

- LK0RAx ('medium') : up to 36 relays / 8 proportional
- LK0RBx ('small') : up to 12 relays / 4 proportional

Various versions available with relay or proportional outputs and AC and DC power supplies

### Technical features

Internal antenna	( external upon request )
DC power supply	12/24 Vdc
AC power supply	48/110 Vca ( 220 Vac upon request )
Relay outputs	up to 36 max. 24Vdc
Proportional outputs	up to 8 max. 0÷10V
Working temperature range	-20°C ÷ +55°C
Protection degree	IP65
Case	ABS
Weight	1,7 Kg (LK0RAx) - 1,1 Kg (LK0RBx)

### Dimensions (in mm)



## Accessories

### Battery charger

Practical and ergonomic, available in 3 different types:

- in alternating current AC 220Vac
- in alternating current AC 110Vac
- in direct current DC 12Vdc

### Shoulder strap and belt

A belt or shoulder strap is available for comfortable, ergonomic use.

### External antenna (equipped with cable)

May be useful in the presence of shields and obstacles.

In case please contact Ravioli Assistance for advice.

### Dimensions (in mm)



## Directives

Machinery Directive 2006/42/EC  
RED Directive 2014/53/EU  
RoHS Directive 2011/65/EU