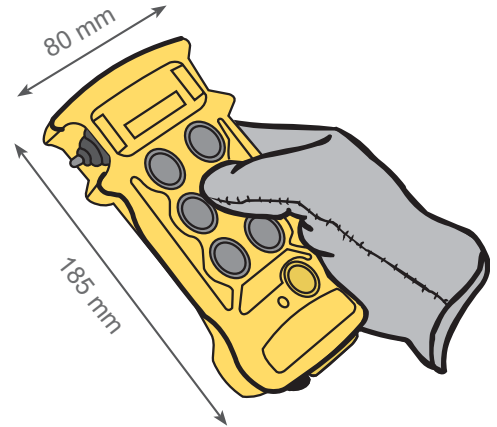




## LK, Fail Safe radio remote control

The LK pushbutton handsets are lightweight (420 g, including battery) and fit into the palm of the hand (80x185x43 mm).

Its shape ensures comfort in high-usage applications: balanced weight distribution, central thin section for better grip, large diameter pushbuttons (22 mm) and easy readable legends. Belt pouch supplied as standard.



The LK radio remote control set is "Fail Safe": if a failure occurs, this does not compromise the safety functions. All systems are subject to strict functional controls on a wide range of parameters carried out by automatic test equipment. The cases of transmitter and receiver are made of impact-resistant composite material with lightweight, high strength and excellent resistance to environmental and chemical exposure.

The LK features make it the perfect choice for the control of a wide range of industrial and construction site lifting equipment: cranes (overhead, jib, tower, portal, monorail, etc.), winches and hoists, concrete pumps and mixers, roll-off vehicles, truck loader cranes, tow trucks, industrial automation.



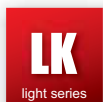
## Simplicity

The automatic frequency change can be carried out from the transmitter (key sequence: Start + Stop, Start) to quickly minimise the effects of any radio disturbance occurring within the operating range. The panel serigraph is clearly readable, even while the pushbuttons are being pressed; customised legend plates are available on demand.

The radio remote controls of the Light series are easy to install and do not require special maintenance. Excellent internal accessibility minimise installation and maintenance cost.

Each set of Autec radio remote control is fitted with a pair of non reproducible and uniquely serial-numbered keys; each transmitter communicates exclusively with its own matching receiver (safe, error-proof system). The electronics is integrated in a single module.

## Gallery



Transmitting Units | Pushbutton handsets with 6/8 single/double step main pushbuttons plus Start and Stop. Pushbutton diameter: 22 mm, removable starting key, side pushbutton or toggle switch (optional). Housing is resistant and waterproof (protection degree IP65). 2 NiMH batteries and their battery charger are supplied.

LK 4



LK 6



LK 8



DIMENSIONS: 80X185X43 mm  
WEIGHT (including battery): ~ 420 g

## Safety

Autec designs and manufactures certified industrial radio remote controls in which the safety level meets the strictest standards. All of the radio remote control design criteria meet the current state of the art.

For the customer, the use of certified radio remote controls is a guarantee that safety, quality and reliability have been tested and checked by a competent, recognised and independent third party.

LK pushbutton handset safety level meets the strictest standards for the functional, electrical, environmental and radio aspects and is compliant with the requirements of the EN 954-1.

The protection of the Stop circuit corresponds to the requirements of category 3 of such Standard; moreover, with a maximum response time of 100 ms, it ensures the immediate and safe machine cut off (Stop activated).

Radio frequency communication is made via a "proprietary Autec system", certified and suitable for "Safety Critical" applications: each radio remote control uses a code that is unique (different from all the others) and univocal (not reproducible).

## Reliability

All the electronic and mechanical parts are designed, manufactured and tested to resist heavy duty usage in extreme working conditions: temperatures from -20°C to +55°C/+70°C, shocks and vibrations, chemical exposure (i.e. oils, varnishes and diluents), electromagnetic disturbance, dust and water (IP65).

100% of our radio remote controls are subject to functional tests in climatic chambers, carried out with testing instruments that ensure that construction specifications are respected.

### LK basic kit

#### LK transmitting unit

- 4 or 6 pushbuttons
- single/double step

#### Receiving unit Type F

- AC / DC power supply
- cable gland output
- internal antenna
- dimensions 120X200X80 mm
- weight 1.2 kg



It is designed in particular for the simplest hoisting machines and for industrial automations in general.

Receiving Units | AC or DC power supply (type B and D) and output connection via cable gland or 16, 24, and 32 (compact) pole plugs (optional); easy internal accessibility for reduced wiring and maintenance time. Highly secure "Fail Safe" control circuit able to prevent dangerous situations in the event of a failure. Protection degree IP65.

side view



back view



Type A



Type D



DIMENSIONS	WEIGHT
120X200X80 mm	2 kg

DIMENSIONS	WEIGHT
180X230X95 mm	max 2,6 kg

# Technical data



General	
Frequency band	433-434 MHz (32 channels) / 869.7-870 MHz (12 channels) / 915 MHz
Hamming distance	≥ 8
Typical operating range	100 m
Stop safety category	category 3 EN 954-1
Number of available on/off commands	max. 14 + Start and Stop
Command response time	~ 100 ms
Stop command response time	~ 100 ms
Channel spacing	25 kHz
Performance of radio receiver	class 1 EN 300220-1
Transmitting Unit	
Power supply	2.4V - 1.6 Ah (NiMH battery)
Autonomy with fully charged battery (continuous use at 20°C)	~ 12 hours
Operating and storage temperature	(-20°C)-(+55°C) / (-40°C)-(+70°C)
Transmitting unit RF power	<10 mW ERP (433 MHz) / <5 mW ERP (870 MHz) / compliant with FCC part 15 (915 MHz)
Low battery warning time	3.5 minutes
Protection degree	IP65
Housing material	PA66 (50% fg)
Receiving Unit A	
Power supply	8-30 Vdc
Antenna	dedicated
Stop/Safety contact rating	10A (30 Vdc)
Command contact rating	6A (30 Vdc)
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Protection degree	IP65
Housing material	PA6 (20% fg)
Receiving unit D	
Power supply	25/35/50/110/230 Vac ± 20%
Antenna	dedicated
Stop/Safety contact rating	4A (250 Vac)
Command contact rating	6A (250 Vac)
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Protection degree	IP65
Housing material	PA6 (20% fg)
Receiving Unit F (only available for LK Basic kit)	
Power supply	Nom. 24-48 Vac/dc (~ 10W); Max. 20-60 Vac/dc
Antenna	internal
Stop/Safety contact rating	4A (250 Vac) / 4A (250 Vac)
Command contact rating	6A (250 Vac)
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Protection degree	IP65
Housing material	PA6 (20% fg)

Products comply with the R&TTE Directive (99/05/EC), the LVD Directive (2006/95/EC) and the Machinery Directive (98/37/EEC), as applicable



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Cert. UNI EN ISO 9001:2000 Nr 50 100 2877 - Rev. 01  
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