

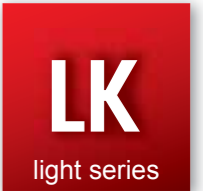
Technical data

General	
Frequency band	433-434 MHz (32 channels) / 869.7-870 MHz (12 channels) / 915 MHz
Hamming distance	≥ 8
Typical operating range	100 m
Safety category for the Stop protection (EN ISO 13849-1)	PL d / cat. 3
Safety category for the protection against unintended movements from standstill UMFS (EN ISO 13849-1)	PL c / cat. 2
Number of available on/off commands	max. 14 + Start and Stop
Command response time	~ 100 ms
Stop command response time	~ 100 ms
Protection degree	IP65
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)
Low battery warning time	3.5 minutes
Protection degree	IP65
Receiving unit A	
Power supply	8-30 Vdc
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Receiving unit D	
Power supply	25/35/50/110/230 Vac ± 20%
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Receiving unit F (only available for LK Basic kit)	
Power supply	Nom. 24-48 Vac/dc (~ 10W); Max. 20-60 Vac/dc
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)

Products comply with the R&TTE Directive (99/05/EC), the LVD Directive (2006/95/EC) and the Machinery Directive (2006/42/EC), as applicable



pushbutton handsets

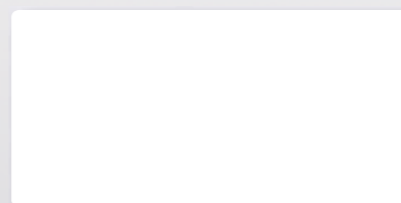


Autec remote control systems keep your people safe in challenging environments



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Cert. UNI EN ISO 9001:2008 No. 50 100 2877 - Rev. 03
Design, manufacture and service of remote control systems for safety industrial application



LIGHT DEPLIANT ENG 4_05/12

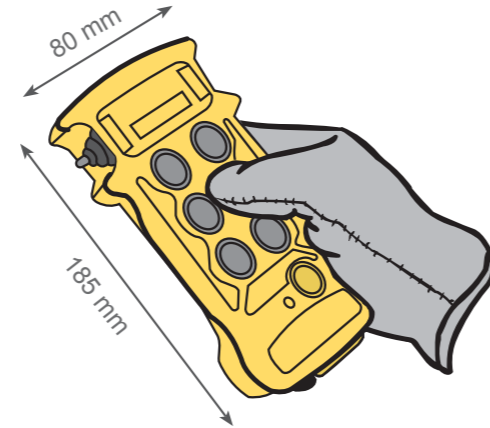


Proven protection for your people

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 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 keys with unique and non reproducible code; 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



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

LK 6



LK 8



side view



back view



Type A



DIMENSIONS 120X200X80 mm
WEIGHT 2 kg

Type D



DIMENSIONS 180x230x95 mm
WEIGHT max. 2.6 kg

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 ISO 13849-1.

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

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

Transmitting unit LK
- 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 automation in general.

Receiving units: AC or DC (type B and D) power supply, with cable gland output or optionally with 16, 24, 32 (compact size) pole plugs; easy internal accessibility to ease wiring and maintenance. Highly secure "Fail Safe" control circuit able to prevent dangerous situations in the event of a failure. Protection degree IP65.