



# MIA

handset radiocontrol



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MIA is the new ELCA radio handset required for the use of industrial lifting and handling machinery and equipment.

Up to 23 on/off commands (2 single, 10 double step buttons, selector 1-0-1, Start and E-Stop (PI) buttons, proportional potentiometer).

Compact, lightweight, ergonomic with low consumption electronics and Lithium battery, the MIA can provide up to 20 hours autonomy in continuous use (low power warning via bright leds and acoustic signals).

An innovative battery with integrated electronics is charged directly by power supply "ELCA-CLIP" and full recharge in 4 hours (15' sufficient for 3 working hours).  
Optional cable with USB connection to external charger.

MIA handset is robust and resistant to harsh operating conditions (ABS casing, release valve, IP65 rating).  
Protective cover available for extra protection (optional).

The bi-directional transmission allows the MIA transmitter to receive up to 4 input signals from external source of a machine wired directly to the receiver with each input represented by dedicated led indicators on the transmitter.  
A MIA version with high definition display + 8 double step buttons is also available.

The transmitter is activated via an electronic activation key sequence with customizable code.  
Automatic shutdown can be programmed at 2-5-10'.

When required, transmitting unit can be quickly replaced by transferring the unique coding key and settings; this is housed inside the battery compartment, protected by a waterproof closure.

Upon activation the MIA transmitter automatically selects the first free available frequency to have the best signal coverage, in all working environments.

The "Function" button is programmable: impulsive/latched commands, 1/2/1+2, "Master-Slave", "Take-Release", "Tandem". The active selection is displayed on the top led indicators.



Excellence of MIA design has been recognized by the world prestigious IF Design Award.

Each MIA kit includes a transmitting and a receiving unit, power supply "ELCA-CLIP", rechargeable Lithium battery, adjustable shoulder belt, user manual.



scale 1:1

Dimensions: 72x235x65 mm  
Weight: 390 g

## MIA Receiver

The FLEXIA receiving unit is designed to be easily installed: hinged opening, components accessible from all sides, spring terminals for quick wiring, internal antenna, cable set, "easy-in", for the distribution of the common-functions.

Available on request:

mounting/fixing plates with quick coupling-release system, external antenna, extra flexible ELCA cable.



### Technical Data

Operating range	UHF
ISM band working frequency	434,050 ÷ 434,790 MHz
Working temperature	-25 ÷ +55 °C
Transport and storage temperature	-25 ÷ +55 °C
Operating distance	150 m
* Safety functions (with EN 13849-1):	
- Stop	PL d category 3
- UMFS (Unintended movements from standstill position)	PL c

### Transmitter

#### E1 Mia

Antenna	internal
Power supply	Lithium battery 3,7 V
Transmission consumption	< 45 mA
Absorbed power	< 0,15 W
R.F. emission power	< 10 mW ERP
1° low battery warning (red led switched-on)	up to 1 hour of autonomy
2° low battery warning (red led quickly blinking)	up to 5' of autonomy
3° low battery warning (horn signal)	100" of autonomy
Battery autonomy at 20 °C	up to 20 hours
Protection level	IP65
Dimensions	72x235x65 mm
Weight	390 g

### Receiver

#### E1 Flexi A

#### E1 Flexi SW

Antenna	internal	
Power supply	48/55/115/230 Vac; 50/60 Hz	12-24 Vdc
Absorbed power	< 15 VA	< 15W
Maximum current to the contacts	10A	
Maximum current on Stop circuit	4 A	
Maximum current on Safety circuit	4 A	
Maximum voltage on contacts	230 Vac; 50/60 Hz	30 Vdc
Protection level	IP65	
Dimensions	135x255x85 mm	
Weight	1600 g	



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ELCA S.r.l.  
Via del Commercio, 7/B - 36065 Mussolente (VI) - ITALY  
Tel. +39 0424 578500 - Fax +39 0424 578520  
info@elcaradio.com - www.elcaradio.com

