

# NIMBLE

Handheld device and controller

Nimble is the entry level system with a 2 button handheld device and a specific 2 output Controller.



sistemática

Nimble contains Sistematica technological solutions, retaining the same features of the other products in the range, offering excellent performance even as the entry level product:



## CLOSELINK

Two-way CloseLink communication is at the heart of Nimble. Thanks to constant interaction between the handheld device and controller, the operator always has the situation under control, since intervention is possible at any time with maximum efficiency. The Controller constantly checks remote connection with the handheld device; if after a default time (300 ms for manned functions, 5 seconds for on/off functions), a correctly coded signal is not received, the controller goes in standby, resetting all the output to zero. Nimble also uses up to 15 transmission channels and proprietary algorithms for asynchronous communication to reduce the probability of interference with external sources to a minimum. The 150m capacity in free space and without obstacles makes Nimble ideal for applications for operation at long distances, thanks to GFSK digital modulation that ensures maximum autonomy of 2,500 hours in stand-by and up to 200 hours of continuous transmission with 2 simple AAA batteries.



## UNIQUENESS

Each Nimble system has a distinct source code which means it can also work with other Sistematica devices nearby and you can be assured that commands will only be exchanged among components on the same system: the 32 bit code enables distinct identification of over 4 billion handheld device-controller couplings. In the event of replacement, it is possible to pair the new handheld device/controller with the due counterpart using a simple procedure, which can even be carried out by the end user.



## COMPLIANCE WITH STANDARDS

- Directive 1999/5/EC (R&TTE) Remote control and telecommunications equipment (Article 3, Article 10 and Appendix 4)
- EN 60950-1 Health and safety
- EN 301 489-3 Electromagnetic compatibility
- EN 300 220-2 Use of radio frequencies spectrum
- EN 60204-32 Electrical equipment safety
- Directive 2004/104/EC Vehicle electromagnetic compatibility
- FCC part 15.249



# URES



## IMPERMEABILITY

Nimble handheld devices and controllers are perfectly watertight, thanks to protection level IP67.

The volumetric ratios make the Nimble handheld device also ideal in nautical applications, enabling it to float; the impermeability of the controllers enable their installation also in locations exposed to the elements.



## DURABILITY

The Nimble handheld devices are all manufactured in highly resistant moulded plastic with a rubber shell that makes its hold firmer and protects against knocks, even if dropped from a height of 4 metres. The absence of mechanical elements enables functioning in unfavourable environments, with a temperature range from -20°C to +55°C.



## ERGONOMICS

Buttons 10mm in diameter, with a wide inter-axis, with clear and effortless contact make the keypad suitable for all users. It is excellent in all those circumstances in which, for various reasons, user sensitivity is reduced or does not permit regulated force. The proportions of the handheld device are the result of appropriate assessment and enable easy, effortless hold.

The contained weight and the reduced dimensions make it easy to use for everyone.



## PROTECTION FROM POWER SUPPLY POLE INVERSION

The use of specific components against power supply pole inversion guarantees the integrity of the device during installation and maintenance operations.



## OUTPUT PROTECTION

All the output is protected from short circuits, surges and inverse voltage to enable parallel functioning with other actuators. The integration of recirculation diodes on the output make the device particularly indicated to command inductive loads, such as electro and solenoid valves, which no longer require the addition of external diodes.



## Applications



winches and pulleys



hydraulic cranes on lorry



lift for disabled people access



stallholder covers



industrial automation



farm machinery and equipment



trailers for exceptional transport



animal transportation



weed sprayers



rescue vehicles



hook lift and containers transportation



vehicle transportation



hydraulic power pack



road maintenance vehicles



tail lifts



forestry vehicles and equipment

## Technical data

<b>Handheld device</b>	
N° of commands	2
Frequency	ISM 868/915 MHz
Power supply	2 AAA 1.5V batteries
Absorption in stand-by	~ 5 $\mu$ A
Average absorption during transmission	25 mA
Maximum capacity	150m in free space and without obstacles
Protection IP67	Silicone rubber keypad
Weight (with batteries)	120 g
Functioning temperatures	From -20°C to +55°C
Dimensions	109x56x30 mm
<b>Controller</b>	
N° of output	2
Frequency	ISM 868/915 MHz
Protection level	IP68
Power supply voltage	12-24Vdc $\pm$ 10%
Functioning temperature	From -20°C to +55°C
Power MOS-FET	
Maximum output current	5A
Maximum total current	7A
Antenna	External
Dimensions (excluding antenna)	58x80x22 mm

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