

MULTIFUNCTIONAL SYSTEM





VIGILI DEL FUOCO
SAPEURS-POMPIERS

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MULTIFUNCTIONAL SYSTEM

The Fireco **multifunction kit** offers to the customers a mast with a complete and functional equipment. This kit meets the needs of the most demanding customers who wish to have all the functions of the telescopic mast in "one single package", allowing the control of all functions with a single system. The multifunctional remote control, which communicates with the integrated electronic board, allows you to control all the functions of the unit through a simple and user-friendly interface. Thanks to the latest technologies in the automotive sector, simple and safe connections to the vehicle system have been designed using dustproof and watertight connectors, making things easier for bodybuilders and after-sales service

MULTIFUNCTION CONFIGURATION

1. TELESCOPIC MAST

The pneumatic telescopic mast is the backbone of the entire multifunctional kit. It can support the entire lighting system consisting of a Tilt & Turn unit and floodlights powered by plug'n play connectors. There are multiple mast models, divided into SMALL, MEDIUM and LARGE based on diameters and specific characteristics.



2. LAMP UNITS

In addition to the mast, the essential elements are the floodlights that can be mounted on a Tilt & Turn unit (T&T, Inside Focus or Illuminator) or directly on the 360° head. They are all equipped with LED components with great efficiency, low voltages, and reduced energy consumption with high light intensity.



3. TILT & TURN UNITS

Fireco Tilt & Turn units have become a standard in combination with Partner masts. The system is safe, reliable and easily manageable, and allows you to tilt and rotate the floodlights from 0 to 365°. The product is available in different versions, which can carry different payloads and can have simultaneous or independent tilting of the floodlights.





4. REMOTE CONTROL FOR ALL FUNCTIONS

The FIRECO multifunctional remote control permits you to control ALL the functions of the mast with just one remote control. The remote control is easy and safe to use, thanks to the automatic block of the keypad and easy to understand functions. The mast with the multifunctional remote control is supplied with an electronic board and an electrovalves group.

REMOTE CONTROLS FOR MASTS WITH TILT AND TURN



RC.31746

Multifunctional remote control for mast extension/retraction, tilt & turn of the floodlights, on/off switching of floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable.

Available also radio (RC.31747_1)



RC.31748

Multifunctional remote control for mast extension/retraction, turn & independent tilting of the floodlights, on/off switching of floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable.

Available also radio (RC.31749_1)



RC.31766

Multifunctional remote control for mast extension/retraction, tilt & turn of the floodlights, single on/off turning of four floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable.

Available also radio (RC.31767_1)



RC.31756_596

SMART Multifunctional remote control for mast extension/retraction, tilt & turn of the floodlights, on/off switching of floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable – **USABLE WITH AND WITHOUT CABLE** – switches automatically to the radio mode as soon as the cable is detached – with rechargeable batteries – back-lit keypad

Available also radio for 3 motors version (RC.31758_596)

REMOTE CONTROLS FOR MASTS WITHOUT TILT AND TURN



RC.31742

Multifunctional remote control for mast extension/retraction, single on/off switching of 4 floodlights, automatic restore – ergonomic, with protection cover and 4mt spiralled cable

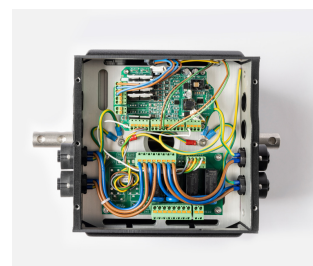
Available also radio (RC.31745_1)

5. ELECTRONIC BOARD

The multifunctional system is controlled by a double layer electronic board mounted inside the tilt & turn unit.

The main features

- Protection against external interferences
- Input Voltage Range - from 9 to 36 VDC
- Protection against higher voltage peaks
- Protection against short circuits on the tilt & turn motors
- Protection against short circuits on the electro-valves
- Storage of all vital data for operation into the microprocessor storage, like airplane black-boxes
- Warning LEDs on the remote control
- 2.4 GHZ radio module for quicker radio data transmission without interferences



6. MICRO - SWITCH

The function of the micro switch is to signal when the mast is extended. The customer can connect it to visual or audio signal inside the cabin, in order not to drive with a still extended mast. Furthermore the automatic restore function can also be connected to the hand brake system, so that by releasing the hand brake, the mast will return automatically to the “home” position.



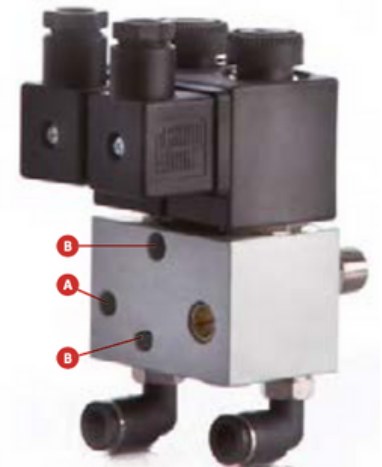


7. ELECTROVALVES GROUP

The solenoid valve unit is used to ensure the electronic extension and retraction of the mast. It is made of anodized Aluminum and it works from 12 V DC to 230 AC, so it is very adaptable. Furthermore it can be easily remoted to another position.

The solenoid valve unit can be placed in two different positions, depending on the costumers' needs: with the coils one opposite to the other or, for a more space-saving configuration, with the coils positioned parallel.

- A)** *Extension Regulator*
- B)** *Fixing Screws M4/M5*



8. CONNECTORS FOR FLOODLIGHTS

The floodlights are connected to the tilt & turn unit Spark by quick connectors, so that the connection (as well as replacement or removal for maintenance) of the floodlight will be quick and easy; furthermore, it is robust, safe and waterproof (IP67 rating)



9. AUTOMOTIVE CONNECTORS (optionals)

Automotive connectors allow for quick and safe installation.





Credits

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