



### DOUBLE POLIFEMO

The double-photocell system for athletics consists of 2 photocells positioned one over the other and synchronized with each other. Only the simultaneous interruption of both the photocells generates a signal. This system ensures that the photocells are interrupted by the competitor's bust and not by the movement of his/her arms.

The special mounting brackets make it easy to line up the photocells and their reflectors and to achieve the correct extent of the zone of sensitivity.

The **DOUBLE POLIFEMO** is available in a radio transmission and cable transmission version.

## POLIFEMO - TECHNICAL DATA

<b>Weight</b>	445 g				
<b>Dimensions</b>	59 x 180 x 104 mm (l x p x d)				
<b>Resolution</b>	0,125 ms				
<b>Delay after event</b>	1 ms				
<b>Operating temperature</b>	-25 °C / +70 °C				
<b>Power supply</b>	Internal	Rechargeable batteries: NiCd, NiMH 1.2 V Non-rechargeable batteries: alkaline 1.5 V			
	On 6-pole polifunctional socket	5 V / 13 V with protection circuit			
	On recharge jack	5 V / 13 V with protection circuit (voltage > 8 V to allow recharging)			
	Protection circuit	✓	✓	✓	✓
	Battery recharge	Built-in "smart" recharge device			
	Autonomy	18 hours			
<b>Microprocessor</b>	8-bit C-MOS microprocessor				
<b>Model</b>		<b>Polifemo</b>	<b>Polifemo Light</b>	<b>Polifemo Radio</b>	<b>Polifemo Radio Light</b>
<b>Connections</b>	6-pole polifunctional socket	✓			
	Optoinsulated jacks	✓	✓	✓	✓
<b>Optical range</b>	15 m		✓		✓
	35 m	✓		✓	
	90 m (facing cells)	✓			
<b>Controls: Dip-switch</b>	Line activated	✓			
	Single/facing	✓			
	TX/RX	✓			
	Dead time	✓			
	Continuous/one shot	✓			
	Type of signal transmitted (Start, Lap 1..6, Stop)			✓	✓
	Long/short signal			✓	✓
	Transmission of impulses from other devices				✓
<b>Radio transmission</b>	FSK digital transmission; redundant code with correct information check and self-correction			✓	✓
<b>Transmission channelization</b>	(16 selectable channels)			✓	
<b>Impulse transm. precision</b>	± 0.4 ms			✓	✓
<b>Time base</b>	4 MHz ±10 ppm quartz between -25°C e +50°C			✓	✓
<b>Radio transmission range</b>	About 2 Km			✓	
	about 300 m				✓



## POLIFEMO

### THE ELECTRONIC EYE...

The new Microgate **POLIFEMO** photocells are outstanding for their attractive design, conceived to meet the requirements of safety standards.

Its special optical and electronic features, such as the light adjustment mechanism, guarantee maximum reliability even when light intensity suddenly changes.

The **POLIFEMO** photocells are available in normal format or with the integrated LinkGate radio transmission system.

Amongst the various **POLIFEMO** photocell models, you are sure to find the one that meets your requirements.

## ...TO STOP TIME



- 01 Reflector
- 02 **POLIFEMO** photocell
- 03 Battery compartment (2 AA batteries)
- 04 Articulated support

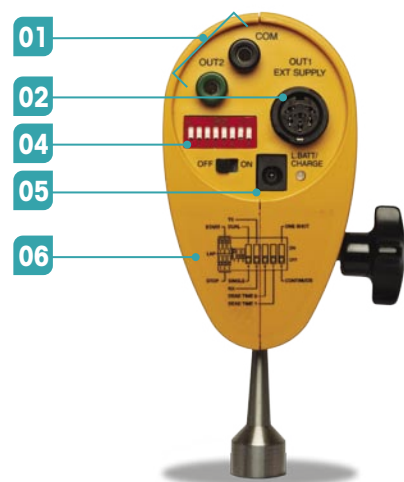
- 05 System of functioning with two facing **POLIFEMO** photocells (range over 90 m)
- 06 Possibility of equipping the photocell with an EncRadio transmitter

### **POLIFEMO**

The microprocessor control and configuration switches allow maximum versatility:

- possibility of setting disactivation times after an impulse (dead time);
- duplicated signal outputs insulated from each other;
- selection of type of impulse (start-stop-lap-aux);
- functioning in normal or single impulse (monostable) functioning with continuous or single closure;
- selection of functioning: reflection with reflector (maximum distance over 35 metres) or with facing photocells (maximum distance over 90 metres);
- low battery indicator.

The internal power supply is ensured by rechargeable batteries (the "smart" recharge circuit is built into the photocell) that can be replaced by two normal AA batteries (more than 15 hours' autonomy).



### POLIFEMO RADIO SF

The radio system built into the **POLIFEMO** photocell allows easy and rapid positioning without the use of cables. It is possible to receive via radio the start and stop impulses and up to 6 identified intermediate times.

- EncRadio SF LinkGate impulse transmission system built into the photocell;
- Selection of transmission channels (16 channels);
- Radio transmission range of about 2 km;
- Selection of impulse type (start-stop-up to 6 laps, each one individually identified);
- Reflection functioning with a range of over 35 metres;
- Low battery indicator;
- Built-in 'smart' recharge circuit;
- Possibility of substituting the rechargeable batteries with two AA batteries (over 15 hours of battery life);
- Possibility of functioning with cable (with radio module disactivation).

**POLIFEMO RADIO** is available in the versions SF and SF2 if the need to operate on two different frequencies at the same time should arise.

### POLIFEMO LIGHT RADIO

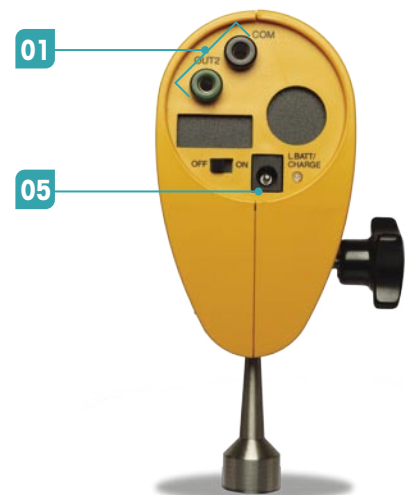
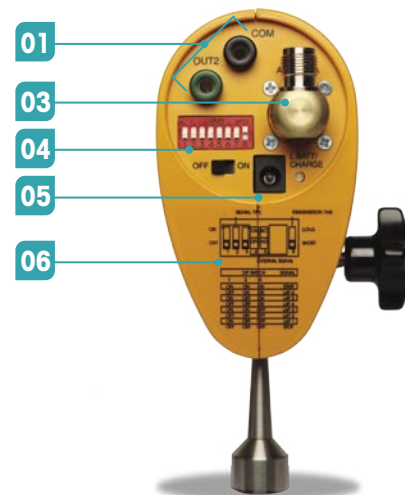
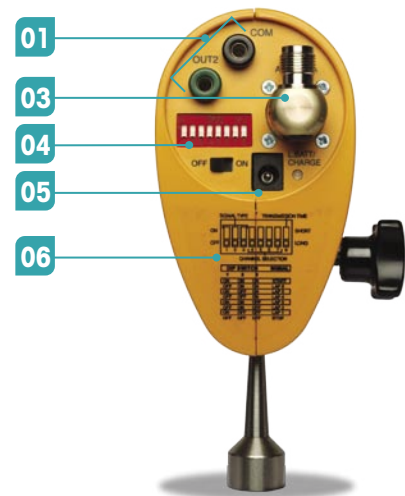
The radio system built into the **POLIFEMO LIGHT RADIO** photocell allows easy and rapid positioning without the use of cables. It is possible via radio to receive the start and stop impulses and up to 6 identified intermediate times.

- EncRadio-Light impulse transmission system built into the photocell;
- Radio transmission range of over 300m;
- Selection of impulse type (start-stop-up to 6 laps, each one individually identified);
- Reflection functioning with a range of about 15 metres
- Low battery indicator
- Built-in 'smart' recharge circuit
- Possibility of substituting the rechargeable batteries with two AA batteries (over 15 hours of battery life)
- Possibility of using the photocell as a radio transmitter by connecting it to sensor devices with normally open or closed contact (touch pad, transducer, buttons, pressure sensors, etc.)

### POLIFEMO LIGHT

Suitable for users who need a photocell with the basic features, **POLIFEMO LIGHT** is at the same time extremely reliable and accurate.

- reflection functioning with a range of about 15 metres;
- low battery indicator
- built-in "smart" recharge circuit
- possibility of substituting the rechargeable batteries with two AA batteries (over 15 hours of battery life).



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- 01 OUT2 and COM signal output ports
  - 02 OUT1 signal output port
  - 03 Connector for connecting to external antenna
  - 04 Dip-Switch for selecting settings
  - 05 Recharge socket
  - 06 Dip-Switch configuration diagram
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