

# Luminous marker "SPOT-FEN-X"

## How to use it :

Insert one LR03 alkaline or rechargeable battery into the marker then screw firmly the cap. To turn power off you only need to unscrew the cap of the marker.

Once the battery inserted and the cap is screwed, the embedded red LED slowly flashes during a few seconds to detect a permanent and stable level of ambient light. If the level is dark enough the LED alights ; we called it the day/night mode. But if the level of ambient light is detected between day and dusk, the marker LED can alight and cut-off several times.

Day/night detection is possible thanks to several light sensors. Automatic lighting at dusk depends of the ambient light but also depends of the light remanence of the phosphorescent ring at the base of the marker.

Though the Spot-Fen-X marker can function in "day/night" mode, it has been designed and optimised to function and be controlled (lighting/cut-off) at interesting distances with a discret blue/purple Laser beam. It can also be possible to control it in really short distance with a powerfull head-light.

At night, to control it, one only needs to target the marker with the laser pointer during a few seconds until the embedded LED alights (You can note that It's easy to find the marker on water thanks to the fluorescent yellow ring at its top. When this ring is alighted by the Laser beam, it emits really powerful flashes !). Once the phosphorescent ring excited, each new targeting of the marker with the Laser beam will turn on/turn off the embedded LED.

Once the Spot-Fen-X is alighted thanks to the purple Laser without any following remote cut-off action, the marker will turn off automatically after a period of 15mn followed every 33mn by 3 flashes until next sunrise.

## Lighting source comparative to control lighting and cut-off of the Spot-Fen-X :

Lighting source	Remote efficiency	Distance of control
blue /purple Laser	Optimum	50m/100m or more depending of the beam brightness
Green Laser	Not reliable	Impossible to evaluate
Red Laser	Very bad	No distance
Head-light	Possible if powerful	Short distance only

## Important :

All rapid flashing of the LED during power on sequence, at dusk, or at each distant control attempt thanks to the Laser pointer to alight the marker (-> 10 fast flashes) means a low battery level.

The metal threading of the marker must be regularly cleaned and greased carefully without any excess with a really thin grease which don't dry (ex : ceramic grease for bike).



SPOT-FEN-X



### Technical Specifications :

- 360° red horizontal lighting,
- remote lighting/cut-off triggered with the help of a blue Laser pointer,
- Visible on water up to 250m,
- Up to 40 days of autonomy according to the lighting duration of the embedded LED,
- Powered by only 1 alkaline or rechargeable battery LR03,
- Low current of 680µA in stand-by mode,
- Fully waterproof with o'ring & with screw mechanism system,
- Made of polycarbonate and anodised aluminium,
- Weight with the battery 60g,
- fluorescent and phosphorescent rings available as accessories
- Can be mounted on the Atrotube or used as a floating marker with a special kit
- Dimensions 145mm x 20mm,
- Operating Températures -10°C/+55°C,
- Guarantee of 2 years in normal conditions of use

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