

## RACON HEKLEO-SX

► Hekleo-SX is a Frequency Agile Racon used as an aid to maritime navigation, compliant with the International Association of Marine Aids to Navigation and Lighthouse Authority (IALA), specifically with the new specifications introduced by the IMO A 615 (15). Resolution about the frequency accuracy, the antennas polarity, and response duration (M 824 – 2 UIT-R recommendation – Appendix 1).

The newly developed Hekleo-SX benefits from the latest technologies for radio frequency, with fast, reliable and micro-controlled electronics widely used to perform efficient self-test routines.

-HEKLEO-SX is fitted with a built-in test to permanently scans the system. An automatic calibration is performed periodically to ensure that the racon is working to nominal conditions, thus ensuring a steady and maintenance-free working time.

-Easy setup of the Racon with software update features for future developments.

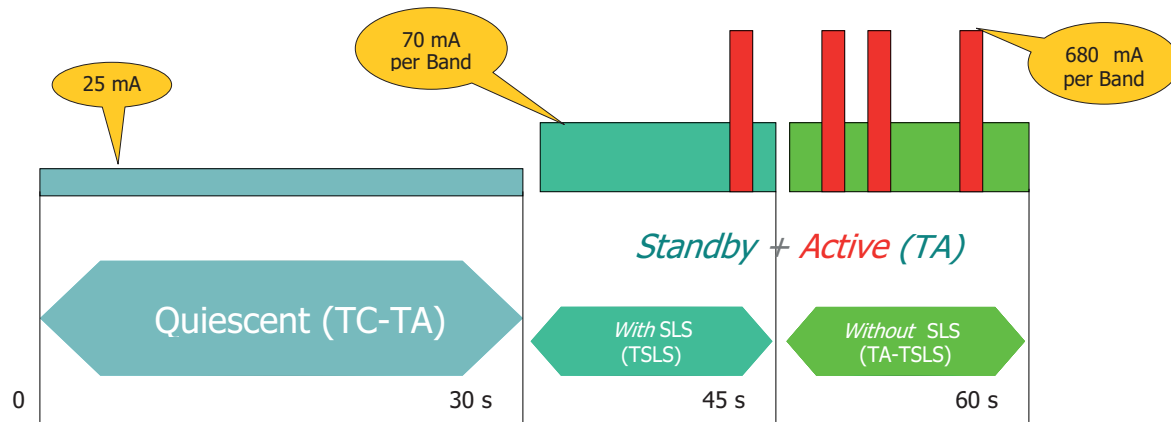
The Hekleo-SX is fitted with a Side Lobe Suppression system for better distinction of genuine signals to be answered according to a given duty cycle. Hekleo-XS measures and responds to each and every detected\* impulse and can therefore respond to several interlaced radars.

\* Except the wake up pulse.

### SPECIFICATIONS

<b>Frequency</b>	X-Band (9300-9500 MHz) S-Band (2900-3100 MHz)
<b>Reception</b>	X and S bands
<b>Receiver sensitivity</b>	- 40 dBm X band - 40 dBm S band
<b>Response encoding</b>	Programmable. 13 letters used in the Morse code according to IMO A 530 (13)
<b>POWER SUPPLY</b>	
<b>Voltage (Vdc)</b>	10 to 32
<b>Dormant consumption (mA)</b>	65 (typique) according cycle
<b>Maximum peak current during transmission (mA)</b>	700 (typical)
<b>ANTENNAS</b>	
<b>Polarisation</b>	Horizontal and vertical in S band, Horizontal in X band
<b>Horizontal diagram (pan)</b>	360 (±2 dB en X and ± 0.5 dB en S)
<b>Vertical diagram (tilt)</b>	± 15 (+/-2 dB (X and S)
<b>ENVIRONMENT</b>	
<b>Operating temperature</b>	- 40°C to + 60 °C Afnor C 20 f03
<b>Water and dust protection</b>	IP 67
<b>MECHANICAL CHARACTERISTICS</b>	
<b>Dimensions (cm)</b>	Ø 26,5 / Height 74 ( 12,5+61,5)
<b>Weight (kg)</b>	9
<b>Material</b>	Polyethylene body, UV protection





**Management of the racon's system power supply modes**

