TYPE APPROVAL CERTIFICATE

For a 406 Megahertz Distress Beacon for use with the Cospas-Sarsat Satellite System

Certificate Number: 291

Manufacturer: ELTA, France

Beacon Type: ELT (Automatic Fixed) (Survival)

Beacon Model: ELiTe (in Automatic Fixed Configuration), ELiTe (in Survival Configuration)

Test Laboratory: TÜV SÜD Product Service Ltd., Fareham, UK

Dates of Test: June 2016 – March 2017

Details of the beacon features and battery type are provided overleaf.

The Cospas-Sarsat Council hereby certifies that the 406 MHz Distress Beacon Model identified above is compatible with the Cospas-Sarsat System as defined in documents:

C/S T.001 Specification for Cospas-Sarsat 406 MHz Distress Beacon
Issue 3 – Rev. 16, December 2015

C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard
Issue 4 – Rev. 10, December 2015

Date of Issue: **4 October 2017**

Steven W. Lett
Head of Cospas-Sarsat Secretariat

NOTE, HOWEVER:

1. This certificate does not authorize the operation or sale of any 406 MHz distress beacon. Such authorization may require type acceptance by national administrations in countries where the beacon will be distributed, and may also be subject to national licensing requirements.

2. This certificate is intended only as a formal notification to the above identified manufacturer that the Cospas-Sarsat Council has determined, on the basis of test data of a beacon submitted by the manufacturer, that 406 MHz distress beacons of the type identified herein meet the standards for use with the Cospas-Sarsat System.

3. Although the manufacturer has formally stated that all beacons identified with the above model name(s) will meet the Cospas-Sarsat specification referenced above, this certificate is not a warranty and Cospas-Sarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use or misuse of the certificate.

4. This certificate is subject to revocation by the Cospas-Sarsat Council should the beacon type for which it is issued cease to meet the Cospas-Sarsat specification. A new certificate may be issued after satisfactory corrective action has been taken and correct performance demonstrated in accordance with the Cospas-Sarsat Type Approval Standard.

5. Cospas-Sarsat type approval testing requirements only address the electrical performance of the beacon at 406 MHz. Conformance of the beacon to operational and environmental requirements is the responsibility of national administrations.

6. This certificate authorizes the use of the registered name mark "Cospas-Sarsat" and of registered trademarks for the Programme's logos, for labelling, instruction materials, and marketing of the 406-MHz beacon model identified, but not for other marketing or sales purposes (i.e., not for general uses beyond this specific beacon model).

Certificate Number: 291 **Dated: 4 October 2017**

Beacon Model:	ELiTe (in Automatic Fixed Configuration)[1], ELiTe (in Survival Configuration)[2]
Beacon Type:	ELT (automatic fixed), ELT (Survival)
Operating temperature range:	-20°C to +55°C (Class-2)
Battery Details:	Lithium Manganese Dioxide ($Li\text{-}MnO_2$), SAFT M20, 2xD-cells;
Operating Lifetime:	24 hours
Transmit Frequency:	406.040 MHz
External antennas:	ELTA P/N 28592 OEM P/N 1327-82 (single-input black rod antenna); ELTA P/N 31908 OEM P/N 2632-82 (single-input white blade antenna).

Beacon Model Features:

- Common ELiTe TRANSMITTER module P/N 12N67880 used in either approved configuration (ELT(AF) or ELT(S))
- Integral ELTA Antenna acts as primary antenna for ELT(S) and back-up antenna for ELT(AF)
- 121.5 MHz auxiliary radio-locating device (nominal power: 50 to 160 mW, duty cycle 33%);
- Interface to external navigation device(*): electrical interface: ARINC 429; data protocols: ARINC 429 Label 310 and 311; physical interface: 26 pin female Canon Sub-D HD connector;
- Self-test mode (one burst of 440 ms), GNSS Self-test mode(**) (no RF transmission);
- Manual and automatic activation via a single-axis G-switch(*) or via a water-sensor switch(**);
- Remote Control Panel(*) ELTA P/Ns 93N6035, 96N9030, 97N9020, 97N9021, 97N9022, 97N9023, and 04N68120 or equivalent to ELTA design per ELTA Document 17B24484;
- RFID ELiTe Coding Tag ELTA P/N 12N67890;
- 406-MHz transmitter automatically switches off after 24 hours 30 minutes of operation.

Approved Beacon Message Protocols: Beacon is approved for encoding with the message protocols indicated with "Yes" and black text below:

USER PROTOCOLS(***)		USER-LOCATION PROTOCOLS		LOCATION PROTOCOLS	
No	Maritime with MMSI	No	Maritime with MMSI	No	Standard Location: EPIRB with MMSI
No	Maritime with Radio Call Sign	No	Maritime with Radio Call Sign	No	Standard Location: EPIRB with Serial Number
No	EPIRB Float Free with Serial Number	No	EPIRB Float Free with Serial Number	**Yes**	**Standard Location: ELT with 24-bit Address**
No	EPIRB Non Float Free with Serial Number	No	EPIRB Non Float Free with Serial Number	**Yes**	**Standard Location: ELT with Aircraft Operator Designator**
No	Radio Call Sign	No	Radio Call Sign	**Yes**	**Standard Location: ELT with Serial Number**
Yes	**Aviation**	**Yes**	**Aviation**	No	Standard Location: PLB with Serial Number
Yes	**ELT with Serial Number**	**Yes**	**ELT with Serial Number**	No	National Location: EPIRB
Yes	**ELT with Aircraft Operator and Serial Number**	**Yes**	**ELT with Aircraft Operator and Serial Number**	No	National Location: ELT
Yes	**ELT with Aircraft 24-bit Address**	**Yes**	**ELT with Aircraft 24-bit Address**	No	National Location: PLB
No	PLB with Serial Number	No	PLB with Serial Number	No	RLS Location: EPIRB
No	National (Short Format Message)			No	RLS Location: ELT
No	National (Long Format Message)			No	RLS Location: PLB
				No	ELT(DT) Location: ELT with Serial Number
				No	ELT(DT) Location: ELT with Aircraft Operator and Serial Number
				No	ELT(DT) Location: ELT with Aircraft 24-bit Address

(*) ELT(AF) configuration only (**) ELT(S) configuration only (***) ELT(AF) configuration without external navigation input only

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[1] ELiTe (in Automatic Fixed Configuration) (composed of ELiTe TRANSMITTER P/N 12N67880, ELiTe Coding Tag P/N 12N67890 and ELiTe AF-BRACKET P/N 12N67900)

[2] ELiTe (in Survival Configuration) (composed of ELiTe TRANSMITTER P/N 12N67880, ELiTe Coding Tag P/N 12N67890 and ELiTe Float P/N 15N62610 and ELiTe S Bracket P/N 12N67910 or alternative ELiTe S-Bag P/N 12N67910)