A new type of lifesaving distress beacon, the FastFind ReturnLink PLB, utilises unique functionality generated by Galileo satellite constellations Return Link Service (RLS) to send a signal to the FastFind ReturnLink beacon confirming the user’s 406MHz distress alert has been received and Galileo GNSS location coordinates have been detected.

ReturnLink's blue light confirms distress signal has been detected and independently located.
The FastFind ReturnLink confirms the signal with a blue flashing light, this life saving re-assurance signal allows those in distress; on land or sea; to know that search and rescue professionals are aware of their situation and they are not alone.

FastFind ReturnLink also offers the accelerated location detection with combined Galileo and GPS GNSS receivers and Orolia’s tried and tested 406MHz technology, which has been at the core of search and rescue innovation since 1981.

The FastFind ReturnLink Personal Locator Beacon (PLB) is Orolia Maritime’s most advanced search and rescue beacon to date. Using the latest MEOSAR utilising advanced technology, packed into a simple, rugged, lightweight, palm sized unit. Using the dedicated 406 MHz frequency, FastFind ReturnLink transmits your unique ID and ultra-precise GNSS position relayed via the global network of Cospas-Sarsat search and rescue satellites.

Explore the world with peace of mind knowing that if you find yourself in distress, activating your FastFind ReturnLink will summon emergency assistance and confirm when Cospas-Sarsat have received your call for help.

Features

- **RLS**: the first of a new range of SAR beacons that receive a reassurance signal confirming distress alert and location have been received by the search and rescue authorities
- **Multi Constellation GNSS**: Building on Orolia’s leadership in innovative location detection technology, FastFind Returnlink incorporates both Galileo and GPS GNSS services
- **Multiple Attach Points**: PLB come with belt attachable buoyancy pouch and life jacket oral tube clip attachments
- **Floats**: with provided buoyancy pouch
- **Free to use**: No subscription
- **Power Assurance**: 5-year battery life
- **Waterproof**: to 10m
- **Lights**: SOS Morse LED flash light & RLS Reassurance blue flashing light
- **Practical**: Safe-stow antenna and 3 stage activation

What Happens Once Activated:

FastFind ReturnLink transmits and receives multiple signals simultaneously,

- Transmits 406 MHz via Cospas Sarsat to global professional emergency service
- Receives GNSS coordinates from Galileo and GPS satellites and transmits with 406MHz signal to regularly update location.
- Once location detection is confirmed the PLB receives Galileo RLS signal and activates blue light (after approx. 15mins)
- Transits 121.5 MHz Homing signal to accelerate local recovery

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not and may not be offered for sale or lease, or sold or leased, until authorization is obtained.
FastFind ReturnLink

- Global leader in MEOSAR & 406MHz technology
- Life Saving Innovation – RLS & 72 channel multi-constellation GNSS receivers
- Direct alert to rescue professionals, not call centres
- Small, rugged, easy to use
- Multiple self-tests of both battery and GNSS
- Perfect for solo adventurers with RLS Reassurance Signal
- Subscription free, with global coverage
- Worldwide support network of suppliers and service dealers

How RLS Works

The new Galileo GNSS satellites, part of the Cospas Sarsat upgrade program MEOSAR, now consists of 26 satellites of a planned 30. The new system reached its operational phase in 2017, allowing technology with a Galileo-enabled receiver to use signals provided by its satellites for positioning, but on completion the Galileo constellation will offer the next technological evolution in life saving technology, the Return Link System or RLS.

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FastFind 220 PLB Specifications

Standards
- COSPAS-SARSAT T.001/T.007 class2, RTCM 11010.3
- ETSI EN 302152-1, A5/NZS 4280.2, NSS-PLB11

Sealing depth
- Immersion to 10 m (30 ft) for 5 minutes

Operating temperature
- -20 to +55 °C (-4 to +131 °F)

Storage temperature
- -30 to +70 °C (-22 to +158 °F)

Altitude
- 12,192 m (40,000 ft)

Buoyancy
- Category 2, will not float (optional buoyancy pouch provided)

Battery type
- Lithium Manganese

Transmit duration
- > 24 hours @ -20 °C (-4 °F)

Battery life (storage)
- 5 years

Battery replacement
- Service centre

Battery Use
- Logged by microprocessor

Transmitter Frequency
- 406.031 MHz (alert) / 121.5 MHz (homer)

Transmitter Power
- 5 W (alert) / 50 mW (homer) nominal

Unique ID Number
- Factory or dealer programmed

GNSS Receiver
- GPS(L1)+GALILEO(E1), 72 channel, ceramic patch antenna

Size (D x W x L)
- 36 x 50 x 112 mm (1.42 x 1.97 x 4.41 in)

Weight
- 164 g (5.8 oz)

Indicator Light
- High brightness LED signal light

RLS Light
- Blue LED

SOS flash light
- Morse code SOS flash pattern, 30 operations

Activation
- Manual, three stage

Self-test
- Tests transmitters, battery and light

Standard Compass Safe Distance
- 1 m (3 ft)

Warranty
- 1 year (+ 4 years with online registration)