

# Balise >>



Balise is the safety transmission equipment which transmits safety related information between lineside equipment and train on-board equipment. Its main functions include receiving downstream energy emitted by BTM antenna, emitting up-link telegram and receiving telegram data from LEU.

Balise refers to discrete point of information transmission on railway track. Under different application environments, Balise can be used as both fixed Balise and controlled Balise. When the train passes over Balise and activates it, fixed Balise will transmit prestored fixed message and controlled Balise will transmit variable message which is received from lineside electronic unit (LEU) or fixed message (default message).



## >> Features



### Interoperability

- SIL4 Certified; **Baseline 4** of **TSI** Certified
- Comply with ERTMS/ETCS Subset-036/Subset-085



### Reliability

- Up to  **$4.85 \times 10^5$**  hours



### Ruggedness

- **IP 68**
- **Debris Class A and Class B**



### Efficiency

- Low power consumption  **$\geq 13$  mWh**
- Short response time: Operates within microseconds after activation



### Applicability

- Support both short and long telegram



### Installability

- Reduced size
- Light weight: Approximately **4 kg**

## >> References



< HollySys provided self-developed Balise to the **Passenger Rail Agency of South Africa (PRASA)** in the KwaZulu-Natal (KZN) Service Region, and also to **Turkey**.

**Over 10 projects** have been executed for the supply of balises, covering **main lines, intercity railways, and airport transit systems**, including Chengdu-Dazhou-Wanzhou Railway, Zhengzhou-Kaifeng Intercity Railway, Harbin-Tieli Railway, Tieli-Yichun Railway, Dunhua-Baihe Railway, Chongqing Airport and Kunming Airport.

