RAILED

- Significant reduction in Life-Cycle costs
- Extremely high availability and reliability, SIL4
- Can be used on all types of interlocking systems
- 15 years service life
- Optical appearance of a filament lamp
- Can replace existing signal lamps without impacting the interlocking system

FIELD ELEMENTS

FIELDTRAC 6366 RAILED

Signal lamps with LED technology
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MAIN FUNCTIONS
The Thales RaiLED signal lamps use 6-9 High-Flux LEDs, which have been proven extremely reliable in traffic signals, as their light source. The central arrangement of the LEDs and the optical design simulates a central light source. The RaiLED’s lens has a special finish so that the light is mainly radiated horizontally, but there is also good visibility at short range. No phantom light effects occur (< 1:50) and sunlight reflections are minimal. In addition to this, the hardening and special coating of the front lens enables excellent visibility over the entire service life – even in poor weather conditions. The RaiLED signal lamp is designed for day/night operation and blinking operation.

The RaiLED’s modular design enables it to be provided in a variety of sizes. Furthermore, the front of the RaiLED housing can be adapted to fit the fastening points of different signal structures. The rear section contains the light source, and can be ordered separately as a replacement part. The housing is sealed tightly meeting Protection – Class IP65. The RaiLED lamps simulate the behaviour of conventional filament lamps through the use of intelligent control electronics, therefore they can directly replace existing filament lamps without requiring any changes to the interlocking system.

The RaiLED is constructed with high quality structural elements and materials providing high availability over its entire service life, despite operating in adverse environmental conditions.

If a fault should occur, it will be safely detected by the device’s redundant monitoring circuit. If one single LED fails, the safety system will automatically perform a safe shutdown of the signalling system. Therefore, a Safety Integrity Level 4 (SiL 4) can be proved.

KEY BENEFITS
- The Thales RaiLED signal lamps can be used in combination with modern electronic interlocking systems and with relay based systems. (20W/25W/CAN-Bus)
- The Thales RaiLED signal lamps do not need maintenance requirements over their whole lifetime.
- The RaiLED signal lamps are presently available in - front lens diameters of 210 mm and 130 mm, (160 mm in assembly), and in the colours - red, yellow, green and white and blue.

Ø 210mm Ø 160mm Ø 130mm 35 VA 20 VA iLED red yellow green white blue