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DOO
Technical Information

KeLink1000™ provides a guards eye view of the full length of the train and platform interface. In an environment where customer safety is paramount, KeLink1000™ is designed to Safety Integrity Level 2 for the safe departure of Driver Only Operated trains, by enabling drivers to view dynamic images of the platform/train interface from the moment the train arrives until it departs. The system allows drivers to see clear images in their cab, at both surface and sub-surface stations.

System Information:

- Live, high-quality pictures of the train-platform interface
- Utilises licence-exempt technology, no additional fees
- Proven leaky feeder technology -TfL and industry approved
- Fully type tested to relevant rail standards
- Analogue system providing ultra low latency and no picture freeze
- Designed in Great Britain

System Features:

- Low impact installation
- Multi-channel transmission
- No active trackside equipment -maintenance is restricted to safe areas
- Suits a variety of rolling stock and station types
- Can interface to Train Management Systems (TMS), to enable intelligent antenna selection and channel switching

Train-borne Equipment:

- Dynamic channel and antenna selection via TMS
- Active Cab Selection via TMS
- Intelligent signal suppression to ensure clean operation (train prep)
- Built-in self-test function utilising a colour video pattern generator
- Through-train low loss co-axial cable Combined Pre-Amplifier/ Receiver/Demodulator

Transmission:

- System accepts standard PAL 1Vpp video signals
- Transmission frequency variable between 45 and 75MHz
- Adjustable RF power output level (adjustable up to +27dBm(500mW))
- The system is purely analogue, provides ultra low latency and guarantees no picture freeze
- Leaky feeder cable can provide continuous coverage for the entire platform length

Imaging Subsystem:

- Video loss alarms can be provided as an option
- High quality platform based image processing with self monitoring
- Video Distribution Amplifiers (VDA's) provide local viewing and outputs to recording facilities; connections to DOO and remote surveillance CCTV systems