

HYBRID RELAY INTERLOCKING SYSTEM

ACTOM has the facilities to manufacture, refurbish or upgrade any type of geographical interlocking system currently in use on any railway in the world.

The purpose of an interlocking is to ensure that it is impossible to display a signal to proceed unless the route to be used is proven safe.

Relay interlocking with or without automatic route setting

ACTOM Signalling has designed this system for small and medium sized stations.

Free-wired with either initiation elements or optional PLC control, this is an extremely cost effective signalling option. The equipment is accommodated in kiosks and trackside housings, which eliminates the need for expensive buildings. The system design is extremely flexible. Individual systems are tailor-made to customer specified requirements and signalling layouts. N or C type composition UIC code 7361 safety signalling relays are used for all vital functions.

HR92 hybrid interlocking

ACTOM Signalling can supply HR92 (Hybrid) geographically orientated interlocking systems, designed for medium sized stations.

In a hybrid interlocking system, vital functions are performed using relay logic and non-vital functions are performed on a standard industrial PLC.

The complete interlocking is function tested in the factory by simulating the trackside equipment. This addresses the full spectrum of the HR92 unit's diverse capability.



The highest standard of quality assurance is maintained throughout.

HR97 hybrid interlocking system

The HR97 hybrid relay (geographical oriented) interlocking system is based on the basic principals of HR92, differing in that each removable unit is now a single unit utilising distributed I/O.

Functions such as emergency points and emergency signals are included in the design. The HR97 relay interlocking is designed for complex and large stations. The PLC communicates over a high-speed bus (World FIP), incorporating intelligent user-friendly diagnostics.

HR(S)

This simplified geographical relay based interlocking is designed and supplied by ACTOM Signalling, as a cost effective solution for small stations. The design is based on the basic principals of the HR97, utilising the PLC for all the non-vital functions and the vital functions being performed over safety signalling relays.

Applications

- Geographical interlocking
- HR92 interlocking
- HR97 interlocking
- HR(S) interlocking

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