INTERLOCKED CRANK HANDLE UNIT

The Interlocked Crank Handle Unit is designed to meet the demands for safety and reliability of railway signalling equipment to provide a centralised crank handle to allow train drivers to remove the points crank handle and safely operate the points under fault conditions.

The Crank Handle box is designed and manufactured by ACTOM Signalling, a division of ACTOM (PTY) Ltd.
The crank handle box is situated near a group of points and mounted on a pole for easy access. This box houses the crank handle which is removable only with a chubb key. Removal of the crank handle is detected in the interlocking.

Operational Data

Interface to crank handle

- The crank handle may only be removed by the proper unlocking of the chubb lock.
- In the case of electric release operation, the CTC gives the electric release, providing an indication of the release, and the crank handle can then be removed by unlocking the chubb lock

Interface to interlocking

- The removal of the crank handle activates a limit switch causing two normally closed contacts to open. This results in the dropping of the appropriate KR's in the interlocking.

Design

The Crank Handle box is designed to allow the train driver to remove the points crank handle for manual cranking of the points set under fault conditions. The removal of the crank handle, centrally positioned within a group of machines, cuts power to all the machines as an interlocking function.

The unit has the following design features:

- Rugged, powder coated, external housing.
- Galvanised support stand.
- Internal crank handle locking is a cast housing, securely fastened to the support stand and outer housing.
- Access for removal of the crank handle by the train driver is via a chubb lock, which traps the key in the lock until the crank handle is returned and closed.
- Internal detection for removal of the crank handle is fail safe with silver on silver contacts.

Mode of Operation

The crank handle box houses the removable crank handle.

The handle is removed by using a "chubb" key to unlock the chubb lock fixed to the inner box. This allows the crank handle to be removed by rotating the handle forward. This motion prevents the chubb lock from being closed and traps the chubb key in the lock, preventing removal until the handle is returned and the lock closed.

Ordering Details

- Interlocked Crank Handle Box.
- Interlocked Crank Handle box with Electric Key Release.

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