



## PROJECT PROFILE

# Roads and Maritime Service Swansea Bridge Control Desk Automation Upgrade

CDMS Electrical was engaged by the Roads and Maritime Service to upgrade their existing automation systems for safe and reliable

### OUTCOME

A reliable and safe automation system was installed including HMI for improved operator interface.

### BACKGROUND

Swansea Bridge forms a part of the Pacific Highway that crosses the channel joining the ocean to Lake Macquarie. The bridge is raised to allow boat access to the lake.

### PROJECT OBJECTIVES

Due to ongoing equipment reliability and operator concerns, improvements were made to simplify the operator desk layout, and automation interlocking, to avoid ongoing traffic incidents and delays. A SCADA system was added to monitor operations.

### CHALLENGES

- To investigate existing automation systems and understand history of changes.
- To deliver a workable automation and operator interface system without compromising the ongoing operation of the bridge.

### OUR APPROACH

In conjunction with the client, CDMS took the following approach to deliver a suitable outcome:

- Held initial detailed discussions on operator and automation system requirements.
- Completed detailed desktop acceptance testing and commissioning to ensure a smooth upgrade process.