

# IMAC CONVEYOR SAFETY & REMOTE ISOLATION

## PRODUCT BROCHURE

*Meet the challenges of maintaining safety while maximising productivity on underground and overland conveyors with Ampcontrol's iMAC conveyor safety and remote isolation systems.*

With Ex ia certification for Group 1 explosive atmospheres and the ability to monitor distributed I/O over distances of up to 10km on a single cable run, the iMAC Conveyor safety and remote isolation systems are suitable for use on both underground and overland conveyors.

Each iMAC conveyor installation is customised to the unique requirements of a site but includes features such as emergency stop, remote isolation, prestart warning, intercom and broadcast messaging functionality.

Complex conveyor systems are easily controlled using the iMAC's remote I/O modules, so that high integrity E-stop and remote isolation may be undertaken even with multiple drive locations. The system is designed to minimise downtime and streamline work processes, even when the interlocking is complicated. Advanced self-diagnostics assist in maximising equipment availability.

### REMOTE ISOLATION

Remote Isolation using Ampcontrol's iMAC system provides a safe and efficient means to isolate power from the conveyor drive system.

By fully automating the isolation procedure the iMAC system minimises operator error, provides inbuilt checks and balances, redundancy and 'fail to safe' controls and reduces the time and number of trained personnel required to achieve full isolation.

The system is capable of independent control without PLC intervention.



## SYSTEM COMPONENTS

### VOICECOM

Ampcontrol VoiceCom provides pre-start warning control, broadcast of pre-recorded messages for system status and diagnostics as well as push to talk intercoms. VoiceCom messaging improves operational workflow with users able to be made aware of system status without having to traverse the length of a conveyor to see a diagnostic display.

Typical messages can include 'conveyor stopped at pullkey 1' or 'remote isolation successful at pullkey 3'

### PULLKEYS

Ampcontrol's pullkeys allow for operators to initiate emergency stopping from anywhere on the conveyor belt via a lanyard. Remote isolation is achieved at the pullkey itself by employing a very simple work procedure, ensuring positive isolation before locking out and conducting maintenance.

