austdac®

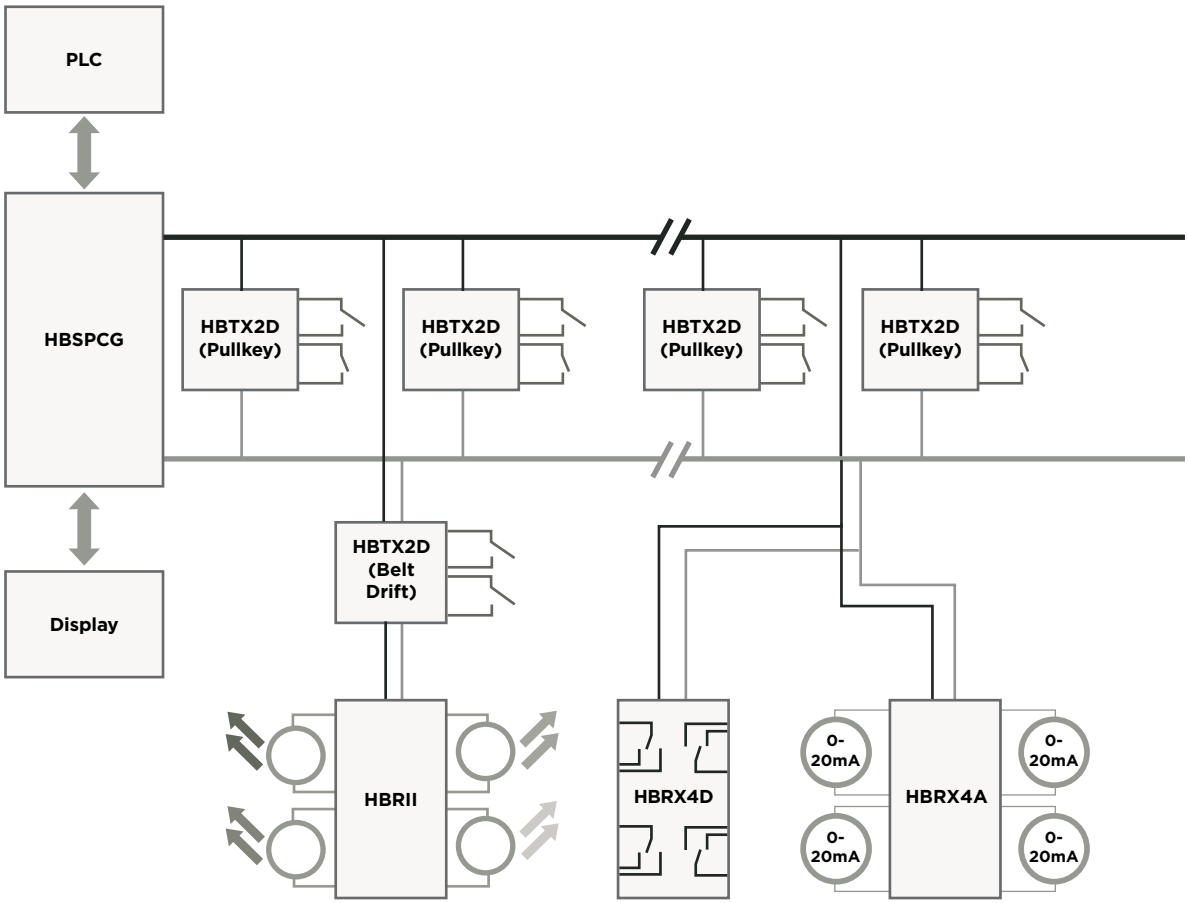


Hubbus Solution – Market Positioning

HubBus is the benchmark for safety and instrument systems in large-scale conveyor operations. Designed and manufactured in Australia, HubBus combines proven functional safety, scalable architecture, and patented technology to deliver unmatched reliability in harsh industrial environments.
For operations seeking maximum uptime, simplified integration, and certified safety compliance, HubBus is the solution of choice.



Typical System Configuration



HubBus System Overview

HubBus is an advanced safety and communication solution primarily engineered for the control and monitoring needs of long distance overland conveyor systems. Built on multiple patents, HubBus delivers exceptional performance through innovative features:

- **System Configuration:** Adjustable bandwidth and device count for optimal system performance
- **High-Voltage Signal Transmission:** Extends coverage and improves noise immunity, supported by a dual receiver design that mitigates interference from VFDs and switching transients
- **System Exception Handling:** Accelerates event response times for improved operational safety and efficiency

As a distributed I/O system, HubBus enables robust communication between controllers and field devices over long distances of up to 30kms. It operates as a single-signal line-powered data bus, supporting 64 to 2,048 addressable devices, ensuring scalable system architecture.

Technical Highlights

- **Data Transmission:** Pulse-width modulation for outbound communication and dual current detection for inbound signals
- **Noise Immunity:** Alternating inbound/outbound states with adjacent pulses ensures accurate detection and reduces interference
- **Fault Prevention:** Pulse pairs alternate states every second cycle, synchronized by a control bit at the start of each pulse train

HubBus has been rigorously tested under the AS/IEC 61508 functional safety lifecycle and independently certified by TÜV Rheinland to meet SIL2 standards for high-demand safety functions — guaranteeing reliability in critical applications.

©2026 Austdac Pty Ltd. All rights reserved.
Hubbell and the Hubbell logo are registered trademarks or trademarks of Hubbell Incorporated. All other trademarks are the property of their respective owners.
www.hubbell.com/austdac

HHI-AUS-SF-EN-04048 | 10/2026

A Hubbell brand