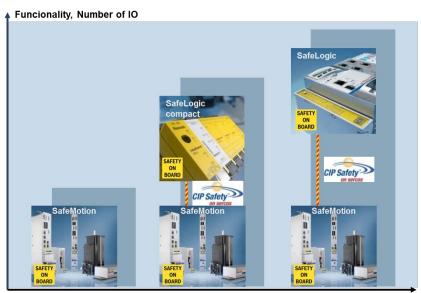
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www.boschrexroth.com

Rexroth Safety Workshop SafeMotion – SafeLogic

CNC | MOTION CONTROL | PLC & IOT | PROCESS CONTROL | DRIVES | SERVICES

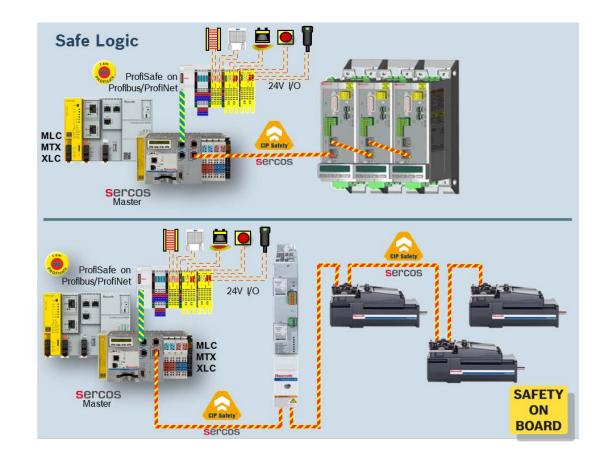
- Safety Abbreviations
- Standards Overview
 - Introduction to Standards (European Machinery Directive)
 - Current standards ISO 13849 & IEC 62061
 - ISO 13849-1 Architecture categories
 - Performance Level (PL) & Safety Integrity Level (SIL) overview\comparison
 - Legal Regulations USA (from TUV Rheinland)
- Rexroth Safety Products Overview
 - Safety Controls
 - SafeLogic compact
 - SafeLogic
 - Safety in the Drive
 - STO Safe Torque Off
 - SMO Safe Motion
 - Safety Functions
 - Summary



Distribution of IO



- SafeLogic Overview
 - Project Structure
 - Logical I/O
 - Safety Data Structure
 - Safety Libraries
- Disable-Activate Safety
 - Disable safety enable functional commissioning, run axis (easy startup mode)
 - Active safety





- SafeLogic-IndraDrive-CSos
 - Single axis IndraDrive with SafeMotion and Safety PLC SafeLogic (SL)
 - Wire safety circuit (hard wired to safety I/O)
 - Configure IndraDrive using the SafeMotion commissioning tools in IndraWorks software
 - All safety parameters including CIP safety on sercos (CSos) network connection between SafeLogic and IndraDrive
 - Axis validation
 - Configure Safety PLC SafeLogic (SL) using IndraWorks SafeLogic Software
 - Configure CIP safety on sercos (CSos) network connection between SafeLogic and IndraDrive
 - Add logic in safety PLC to transfer relevant signals between SafeLogic<->IndraDrive & SafeLogic<->IndraLogic (standard PLC)
 - Manipulate wiring and use fault diagnostics to localize the wiring problem
- SafeLogic Diagnostics and Status Information



- Safely Monitored Deceleration
 - Safely Monitored Deceleration
 - Use the oscilloscope to setup parameters for either normal operation or troubleshooting a F7051/F8351 Safely-monitored deceleration exceeded fault
- Save/Load parameters via serial commissioning in IndraWorks software
- Machine acceptance test
- Links to Manuals



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