

Safety solutions for all drive series:

Many machinery manufacturers feel a cold chill run down their spines whenever they think of the new EU Machinery Directive, because it is something they have been continually putting off dealing with. Banish your fear of safety. With its "scaleable safety system", LTi DRiVES offers an easily programmable safety solution for your machine, for all drive axes.

The "scaleable safety solution" features in-drive safety control as well as the facility to manage all the machine safety functions with the aid of an external controller.

To that end, the 'Safe Motion' architecture implemented in the ServoOne (Functional Safety model) has been implemented in an external safety controller. This offers an easy means of implementing safety for all the existing large-volume series CDE 2.2-170 A, CDB-SH 0.75-90 kW, CDF 8 A and ServoOne 4-170 A Standard model) with one STO interface. This solution also enables all new safety functions (STO, SS1, SS2, SOS, SLS, SLI, SDI, SLP etc.) to be implemented.

Both in the ServoOne Functional Safety model) and in the external safety controller LTi DRiVES offers the possibility to implement the machinery solution with all commonly used encoder systems. This also includes the resolver solution, which offers a very economical option thanks to its high safety levels (up to SIL 3) and its advantageous cost structure.

The heart of the scaleable safety solution is the 'Safe Monitoring PLC' programming interface. This tool provides an easy means of configuring, parameterizing and programming the complete machine safety solution. In addition to the safety functions already mentioned, all commonly used capture units such as emergency stop systems, walk-on mats, light grids, light curtains, laser scanners and even two-handed controls are provided pre-configured. The flexibility of programing, parameterizing and configuration enables virtually any machine design concept to be simulated on the 'Safe Monitoring PLC' and be easily adapted to meet new requirements.

What advantages does the scaleable safety solution offer machinery manufacturers?

- Depending on requirements, the machine safety solution can be implemented externally or in the drive, with no difference in programming.
- All new safety functions can be easily implemented with the 'Safe Monitoring PLC'.

- Engineering costs are reduced, as the complete machine safety is mapped in one program which can be adapted very easily to different machine types.
- The various simple safety switches in the machines can be eliminated, as the safety control performs those functions.
- Commissioning and validation costs are kept low, because the complete machine safety solution can be validated by way of the safety control.
- Easy expansion based on additional I/O modules

In summary, it can be said that the scaleable safety solution offers you the opportunity to implement a unified safety management system all across your product portfolio.

Regardless of whether you opt for an external safety controller or in-drive safety control. LTI DRiVES offers you a single, unified safety solution to meet all your needs, from the drive, through the safety control, to the motor and the related motor feedback systems.

Safety from LTI DRiVES: And suddenly it's all so easy!

Contact person: Ingrid Becker Tel: 06441 966-151 E-mail: ingrid.becker@lt-i.com