**P R E S S R E L E A S E**

# IO-Link Safety is coming to life

Live demonstration at SPS 2022

**Karlsruhe, Germany – September 07, 2022:** The first multi-vendor live demo with IO-Link Safety will be demonstrated at the joint PI stand at the SPS trade fair in Nuremberg – Germany (Hall 5, 210). Eight manufacturing companies will be demonstrating the possibilities and power of IO-Link Safety live on site.

A failsafe PLC will be communicating with IO-Link Safety masters over PROFINET and PROFIsafe here. Light grids, door locks, control & signaling device boxes, emergency-stop buttons and safe drives are integrated into the application as IO-Link Safety devices. To demonstrate the interplay between IO-Link and IO-Link Safety in an application, an IO-Link text display and an IO-Link signal light are used for status indication.

The application also demonstrates mixed communication mode in particular, where safety-oriented and standard data is exchanged with the same IO-Link device at the same time. This makes IO-Link Safety very powerful and is used for safe drives, door locks and control & signaling device boxes, among other things. In this way, non-safety-oriented functions can be programmed as usual, while only the safety-oriented functions have to be controlled and monitored by the PLC's failsafe program.

Device engineering is carried out as usual with IO-Link using the IODD (IO Device Description). If device-specific and safety-oriented parameters can also be set with the IO-Link device, a so-called dedicated safety tool from the device manufacturer can be used in addition to the IODD. A standardized interface (device tool interface, or DTI) is available for integration of the dedicated safety tool into the IO-Link engineering software. Pre-configuration outside the system can also be carried out conveniently with a USB IO-Link master. This provides IO-link Safety functions in conjunction with the engineering software. This makes it possible to test the safety functions prior to installation in the system.

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**Graphic:** The IO-Link safety technology is available. The IO-Link Community shows the first IO-Link Safety multivendor demo at the SPS.

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