



SIDI enables IO-Link devices to be integrated directly in a Profinet engineering software such as the TIA Portal. The software can now be used on Turck's TBEN-S and TBEN-L IP67 IO-Link masters as well as the IP20 variant FEN20

involved and the great deal of know-how required for this, this solution is also error-prone. Not to mention the problems encountered by service technicians with projects which were configured with different tools

SIDI integrates IO-Link devices in GSDML files

Turck identified this weakness in IO-Link early on and has already been working on its SIDI function for several years. IO-Link devices are entered here as Profinet submodules in the GSDML of the IO-Link masters. As an IO-Link member from the very beginning, the company is now equipping its IO-Link master in a block module design (in IP20 and IP67) with the SIDI function. Anyone integrating one of these IO-Link masters in a Profibus project can immediately use the connected IO-Link devices as Profinet modules.

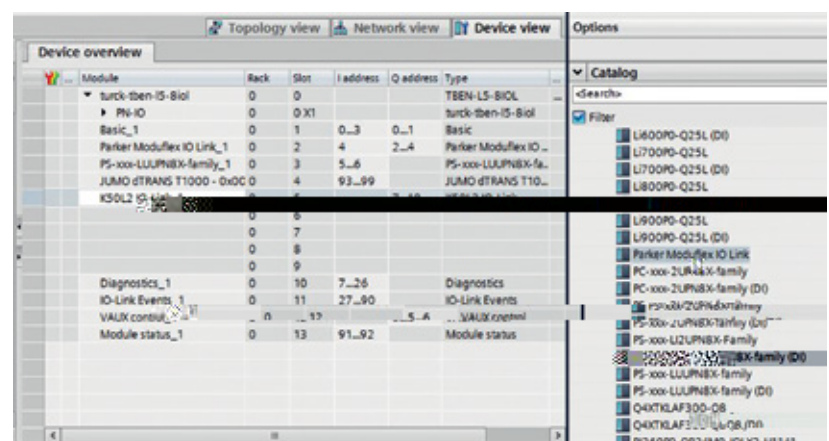
Turck integrates all its proprietary IO-Link devices in the SIDI library, as well as the devices of its strategic partner for optical sensors, Banner Engineering. The first IO-Link devices of third party manufacturers are also already included. More devices of other manufacturers are expected to be included in the SIDI library in future. For this, each device to be included must first be tested rigorously in order to ensure the smooth operation and the user-friendliness of the tool. Turck is also willing to integrate the devices of third party manufacturers on request – particularly those that are not included in the portfolio of the automation specialist. Turck has benefitted in the development of SIDI from its experience as manufacturers of IO-Link masters and devices. This double expertise is rare to find in the automation sector.

IO-Link devices by drop-down in Profinet projects

If the connected device is in the SIDI GSDML, PLC programmers can select it from the device catalog in their programming environment. The programmer can now view all the relevant IO-Link properties for these devices and alter parameters, such as measuring ranges, output signals or pulse rates in the plain text field.

Offline engineering with SIDI saves considerable time

The benefits of SIDI particularly become apparent in large projects where using previous alternatives involved a lot of problems. Large plants and machines can normally be entered as a project offline first of all.



SIDI allows IO-Link devices to be selected from the hardware catalog exactly like Profinet modules

The Profinet nodes are added in the device tree and selected normally from the library of the TIA Portal. Offline engineering is now also entirely possible with IO-Link devices. The devices therefore no longer have to be available on the PLC programmer's desk. Programmers also no longer have to visit each device in advance with the laptop in order to enter the necessary

settings via a USB adapter. Consistent offline access from the office desk to all device data therefore saves a lot of time in large projects compared to integrating IO-Link without SIDI. The wiring of pure IO-Link projects is basically child's play for fitters and electronic technicians.

Simple maintenance: Plug and play device replacement

Besides engineering, SIDI also supports maintenance. As all device properties and parameters of masters and devices are directly available in the central project location of the controller, automatic device replacement can be carried out easily without any problem – both for IO-Link masters as well as devices. Only the Profinet name has to be set. By using Profinet with topology information this even takes place automatically. Any laborious setting of the measuring ranges and other parameters is no longer necessary for the used devices.

The best of both worlds

By opening the engineering benefits of the Profinet world also for IO-Link installations, Turck as an automation manufacturer is trying to make the IO-Link standard attractive for die-hard Profinet fans. The cost saving benefits are in favor of IO-Link installations anyway. SIDI could in this respect rekindle some discussion between e-planning, design and purchasing.

- Full configuration of IO-Link devices directly from the Profinet engineering systems
- No additional software required for configuring IO-Link
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