ISH

Invitation

Automation solutions
for sustainable buildings

ISH 2023, Frankfurt am Main
March 13 – 17, 2023
Hall 10.3, Booth C51

New Automation Technology **BECKHOFF**

Energy-efficient building automation with Beckhoff

After a long break, ISH – the world's leading exhibition for water, heat, and air – is gearing up to open its doors in Frankfurt am Main again from March 13 to 17, 2023. We are very much looking forward to meeting you there in person and sharing ideas about your upcoming projects. Find out how you can use PC-based control to reduce the costs of project planning, engineering, and installation of building automation solutions, and how properties can reduce their energy requirements during subsequent operation.

We will demonstrate how our energy-efficient building automation can integrate and control all technical systems on one platform – including IoT functions and concepts for intelligent energy monitoring. The TwinCAT Building Automation software solution reduces engineering effort by providing ready-made templates for all typical building functions.

We look forward to seeing you in Hall 10.3, Booth C51.

Every building function integrated into one platform: TwinCAT 3 Building Automation

- control of all technical systems in the modular TwinCAT automation software
- reduced engineering work due to prefabricated templates for all typical building functions
- integrated HMI for visualization of operating and monitoring functions
- complete solution of perfectly matched templates for HVAC, lighting and shading
- a great all-rounder for optimizing comfort and energy efficiency through modern and up-to-date system and room automation functions

▶ **Learn more**

Pluggable system solution for control cabinet-free automation

- modular system with IPC, coupler, I/O, motion, relay, and system modules on scalable baseplates
- direct placement on the machine
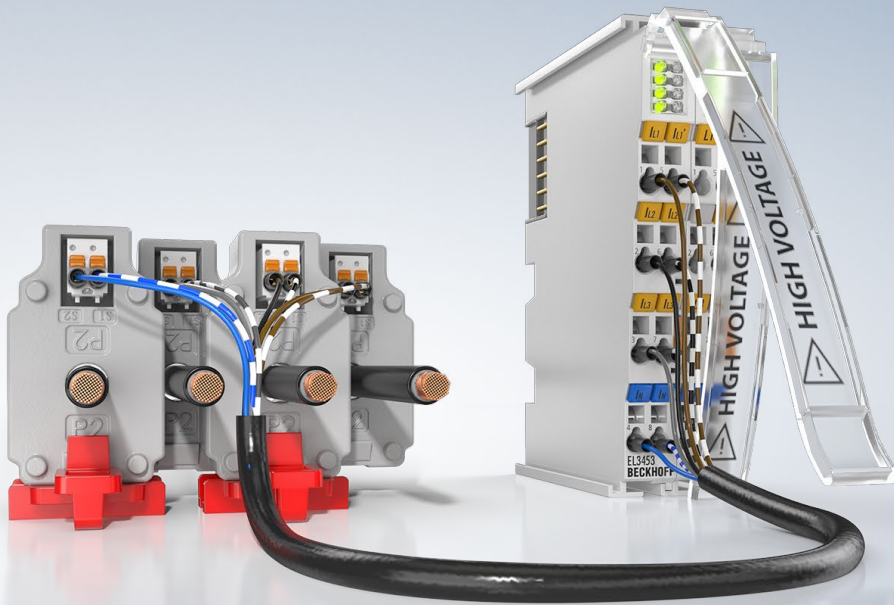- for control cabinet-free machine and system concepts in robust metal housings

▶ **Learn more**

MX-System

Efficient energy management in buildings: EtherCAT and PC-based control for network monitoring and power monitoring

- a wide range of EtherCAT Terminals for direct measurement of all relevant electrical data for the supply and distribution network
- a comprehensive TwinCAT 3 Power Monitoring software library for evaluating raw current and voltage data
- multi-site energy monitoring of properties via IoT Communicator app
- seamless integration into TwinCAT Building Automation

▶ **Learn more**

ARM, 400 MHz

12 Multi I/O

TwinCAT® 3

Ideally suited to room automation: The CX7000

- a powerful embedded PC as a low-cost compact controller
- ideal for implementing stand-alone solutions in the building
- integrated multifunction I/Os are flexibly configurable via TwinCAT 3, e.g. as a counter input or PWM output
- individually expandable with all EtherCAT Terminals or bus terminals

▶ **Learn more**

EL8601-8411 and EP8601-0022 multi-functional terminals with high protection ratings provide unique signal mixes

- up to 9 signal types are squeezed into a 12 mm-wide terminal using smart I/Os
- ideal for system expansion if space is tight in the control cabinet
- significant cost advantages compared to setup with individual terminals
- automatic adaptation of the pin assignment in TwinCAT, based on the configuration
- combinable signal types: analog I/Os, (12-bit, current/voltage), digital I/Os, counter (100 kHz), encoder, PWM (20 Hz to 25 kHz)

▶ **Learn more**

The Beckhoff team is looking forward to your visit!

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Opening hours:
Monday – Thursday: 9:00 a.m. to 6:00 p.m.
Friday: 9:00 a.m. to 5:00 p.m.

Further information:
www.beckhoff.com/ish
www.ish.messefrankfurt.com