

Bosch BIS and Rexroth ILC:

## A Unified Solution for Building Functionality and Management

The integration of the Bosch [Building Integration System \(BIS\)](#) with the Rexroth IoT-ready Programmable Logic Controller (ILC) allows for monitoring and management of building functionalities. Like this, functionalities such as air, lighting, utility, windows and shades can be controlled within BIS, expanding the security and safety focus to a centralized platform for operational building management. BIS communicates via the performant and secure communication protocol OPC UA to the ILC, allowing for an easy configuration as the OPC server is embedded on the ILC without the need of additional hardware. The ILC interfaces via digital or analog input/output signals, DALI, Modbus RTU/TCP or EnOcean with the different building devices, depending on which protocol is needed for which device. The real time communication between the ILC and the peripherals allows for highest synchronicity and performance.

- Monitoring of building functionalities such as air, water, lighting, HVAC, utility, blinds/shades, energy
- Highly secured communication between Rexroth ILC and BIS via OPC UA
- Alarm and workflow management with BIS
- Trigger follow-up actions with BIS, e.g. camera into preposition and pop-up
- Real time communication between ILC and devices

### Compatibility

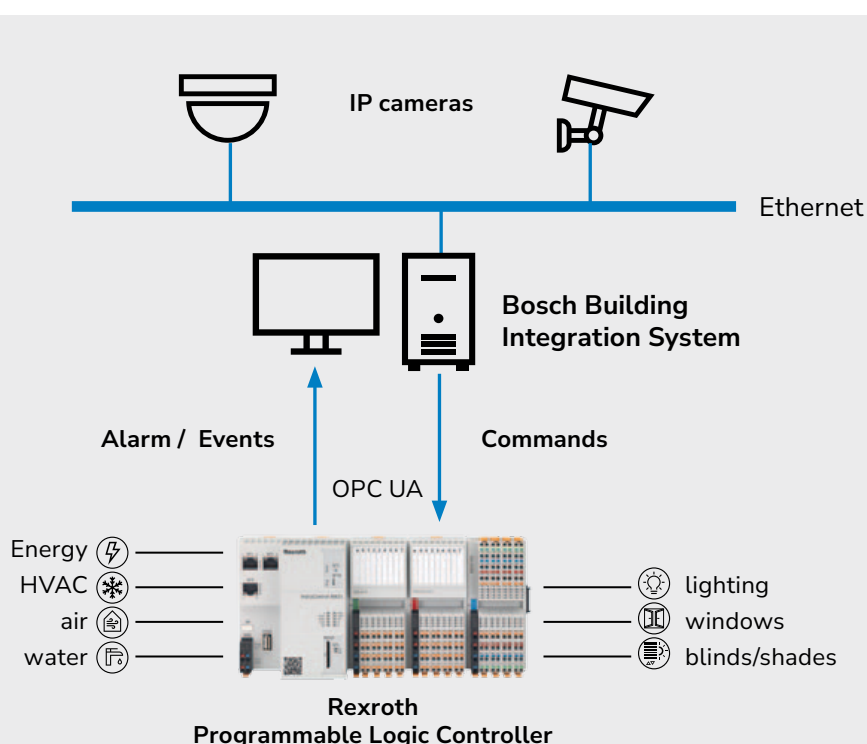
#### Bosch Rexroth

#### Bosch products

Programmable Logic Controllers (ILC):

[BIS 4.6 and newer](#)

- Embedded Control XM21 incl. extensions
- Embedded Control XM22 incl. extensions





Commercial



Health care



Industry



Airports, railway & metro

## Key features

- Alarm management
- Scalability
- Offline capability
- Customized door modelling
- Industrial standard

## Configuration



- 1 Integration of light via DALI
- 2 Integration of windows, shades, blinds via Digital IO
- 3 Integration of HVAC via BACnet
- 4 Integration of building automation via KNX, Modbu

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