

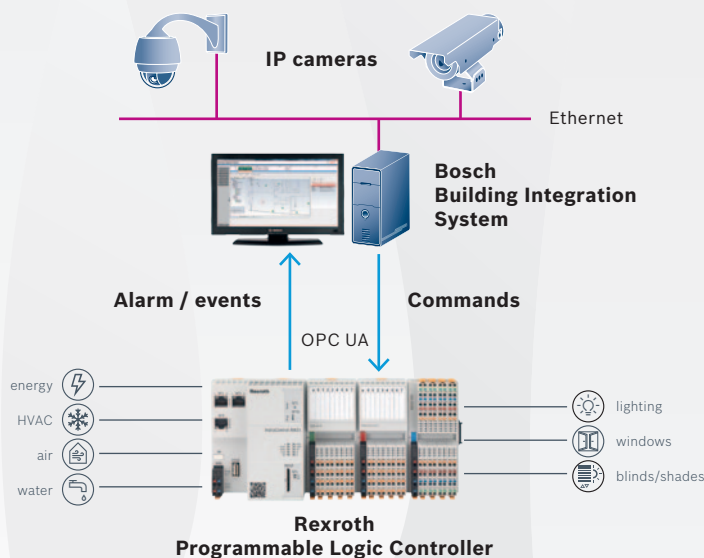
**BOSCH**

Invented for life

Integrated security, safety and building solution

Building automation

Bosch Security and Safety Systems and Bosch Rexroth



- ▶ 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

rexroth
A Bosch Company

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.

Compatibility

Bosch Rexroth	Bosch Security and Safety Systems
Programmable Logic Controllers (ILC): <ul style="list-style-type: none"> ▶ Embedded Control XM21 incl. extensions ▶ Embedded Control XM22 incl. Extensions 	BIS 4.6 and newer

Applications / Vertical Markets



Commercial and office buildings



Health care and hospitals



Industry and manufacturing plants



Airports



Railway and metro

Key features

Alarm management

Alarm notifications pop up in BIS with information on the status of the different building devices.

Scalability

BIS and the Rexroth ILC are scalable and can thus be extended to the customer's needs.

Offline capability

The system is constantly working even in the case of temporary network disconnection.

Customized door modelling

Programmable logic in the ILC allows for creating complex door models like multi-level man-traps.

Industrial standard

The ILC complies with industrial standards such as Modbus, DALI, EnOcean, KNX (available end of 2018) and BACnet (available 01/2019).

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, Modbus

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