The BCS function blocks were developed to comply to the latest normative and technical requirements for optimizing consumption of fossil fuels and reducing the pollution caused by fossil fuel combustion. Additionally, the usage of pre-programmed and proven function blocks can be understood as a fault-avoidance measure in accordance with IEC EN 61511 (ANSI/ISA 84.00.01) during the design of the application software. Another important aspect is that the proven BCS function blocks reduce engineering time and therefore the cost of the application software design.

**Part Numbers**

Block library for the load and combined control of fuels and combustion air in industrial firing systems. Can be used for the programming tool SILworX.

8 9 5650005: X_BCS_Heat_Lib Block library for load and combined control

**Benefits**

**Safety Benefits**

- No programming errors thanks to tested pre-programmed solutions
- Fault-avoidance measures in accordance with international safety standards
- Simplified troubleshooting in field thanks to the comprehensive diagnostic of the BCS function blocks

**Cost Benefits**

- Less programming effort
- Lower inspection and test costs
- Fast commissioning

**Operating Benefits**

- Comprehensively tested functions facilitate project planning
- SILworX online help function for block parameterization
- Documentation is automatically imported with block library migration to SILworX
**TECHNICAL FACTS**

**SILworX BCS FUNCTION BLOCKS**

<table>
<thead>
<tr>
<th>Brief Description of the Function Blocks</th>
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<td><strong>X_BCS_PID</strong></td>
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* X = for HIMax and HIMatrix (SILworX)

**Engineering Tool**

SILworX is the fully integrated configuration, programming, and diagnostics tool from HIMA for the HIMax and HIMatrix systems.

**Safety System**

The fail-safe HIMA safety controllers HIMax and HIMatrix meet highly technical prerequisites for the safety-related monitoring of the firing functions of gas and oil burners.

**Functional Safety**

The function blocks meet the applicable requirements of the following standards:

- DIN EN 50156-1
- Selected technical standards:
  - EN 298, EN 230, EN 264, EN 676, EN 12067-2, EN 746-2, etc.

TÜV-tested and TÜV-certified BCS function blocks are part of the HIMA solution FlexSILon BCS.

FlexSILon BCS is the complete solution for the automation of burner control and boiler protection. HIMA offers this complete solution from just one source. The core components are the proven safety systems HIMax and HIMatrix; the configuration, programming, and diagnostic tool SILworX; and the unique know-how of experienced system engineers who support you throughout the entire lifecycle. This is how HIMA guarantees maximum plant safety with optimized availability.