GEBHARDT Automation GmbH

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GA BASIC /L BlueLine³ series

non-redundant or internally redundant control and safety system



Functional Safety
TÜVRheinland CERTIFIED
www.tuv.com ID 0600000000

SIL3

The **BASIC /L** system, when equipped with suitable safety cards, can achieve Safety Integrity Levels SIL 1 to SIL 3 in accordance with IEC 61508 for both control and safety tasks. Certification by TÜV Rheinland has been completed.

The BASIC /L is a simplex control and safety system with 18 + 3 slots. 18 slots are usable for GA CPU and I/O cards and three slots are usable for the FSx-Switch cards. All slots are coupled via a parallel data bus plus redundant Ethernet.

The mechanical design and appropriate connectors make it possible to replace all components (GA cards, GA power supply units, circulation fans, filter, etc.) when the system is in operation.

Technical data

- 19-inch rack, 4U high
  WxHxD = 483 x 191 x 425 mm
- 1x FS1 data bus with 18 + 3 slots, parallel data bus plus redundant Ethernet integrated
- Single or redundant power supplies:
  24 V DC or 100 - 240 V AC or mixed
- Insertable central processor cards: MPU-M1, ICU-M5 or ICU-M4. An optional hot-standby configuration with two processor cards per unit is available.
- MCxxx-S safety I/O cards
- Standard non-safety I/O cards
- Single or redundant power supplies for each unit: 24 V DC or 100 to 240 V AC or mixed
- Max. number of I/Os: approx. 300
- Hot-swappable fan with fan monitoring
- Hot-swappable air filter, removable from the rear
- Overvoltage and overcurrent protection
- Voltage monitoring
- EMC-compatible construction, chromate-coated surface
- Swing-frame mountable
- Operating temperature range: 0 °C to +60 °C

The BASIC /L system complies with current standards:

- EN ISO 13849-1: 2023
- IEC / EN 61508 Part 1 – 7: 2010,
- IEC / EN 61131-2: 2007
- IEC / EN 61131-6: 2012
- IEC / EN 61326-3-1: 2017
- EN 61000-6-7: 2015
- EN IEC 62061: 2021 + A1:2024
- EN 50156-1: 2024
- EN 60204-1: 2018 + A1: 2025
- EN 50155: 2021 (only temperature tests)
- EN 61373: 2010 + AC 2017
- EN 61010-1: 2010 + A1:2019 + A1:2019/AC:2019
- EN IEC 61010-2-201: 2024

DATASHEET