Brake Control Unit BCMS-4

PINTSCH BUBENZER
is certified according to
DIN EN ISO 9001:2008

Reliable | **High Performance** | **Robust** | **Easy Maintenance** | **Compact** | **Tried and Trusted**

Description Brake Control Unit BCMS-4

Main Features

- Plug and play – minimal configuration and implementation effort
- No micro- or proximity switches required for the brake (much lower amount of wiring)
- Components such as contactors, power rectifier, suppressor to be omitted (space and cost savings)
- Through the use of plug-in terminals a prior installation of the connecting cables is possible (saves time)
- Normal maintenance intervals are not required on our brakes (extreme reduction of maintenance costs)
- Due to the 4-channel version up to four spring-loaded brakes can be operated simultaneously
- Certified safety through professional association
- In conjunction with a superior safety PLC operation by security classification DIN EN ISO 13849-1 PL d, Cat 3 is possible
- Internal 2-channel safety logic in redundant design
- Providing I / O diagnostic outputs for integration into PLC
- Quick releasing and closing of the brakes
- Overcurrent trip to protect the brakes
- Wire break recognition
- Minimize the power dissipation of the brakes by regulation the holding current
- Internal menu structure
- Representation of the status wear
- User interface RS 232 for connection and intervention in the menu structure
- Manual operation of the menu structure
- The operating status and diagnostic messages are be visualized and displayed at the unit itself
- Optimization of the wear allowance
- „One solution, one source“

Applications

- Container cranes
- Ship winches
- Automatic racking systems
- Conveyor belts
- General electrical drives

Method

The BCMS-4 is a micro-controller-based monitoring and switching device for spring applied brakes of the SFB and KFB series. Through measurement and analysis of current and voltage of the outgoing two-wire lines of the individual brakes wear and switching state of each electromagnetic spring-applied brake can be detected in some distant mounting position. There can be up to four brakes operated and evaluated simultaneously. The operation of the brakes is fundamentally with rapid releasing and closing of the brakes.

Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that brakes are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our brakes is only valid if the user adheres to the German DIN standard 15434 part 2 (drum and disc brakes, servicing and maintenance in operation), or to comparable standards in his own country.

PINTSCH BUBENZER Service

This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on-site by PINTSCH BUBENZER service engineers is possible. Drawings as DWG/DXF files for your engineering department are available upon request.

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Principal circuit diagram

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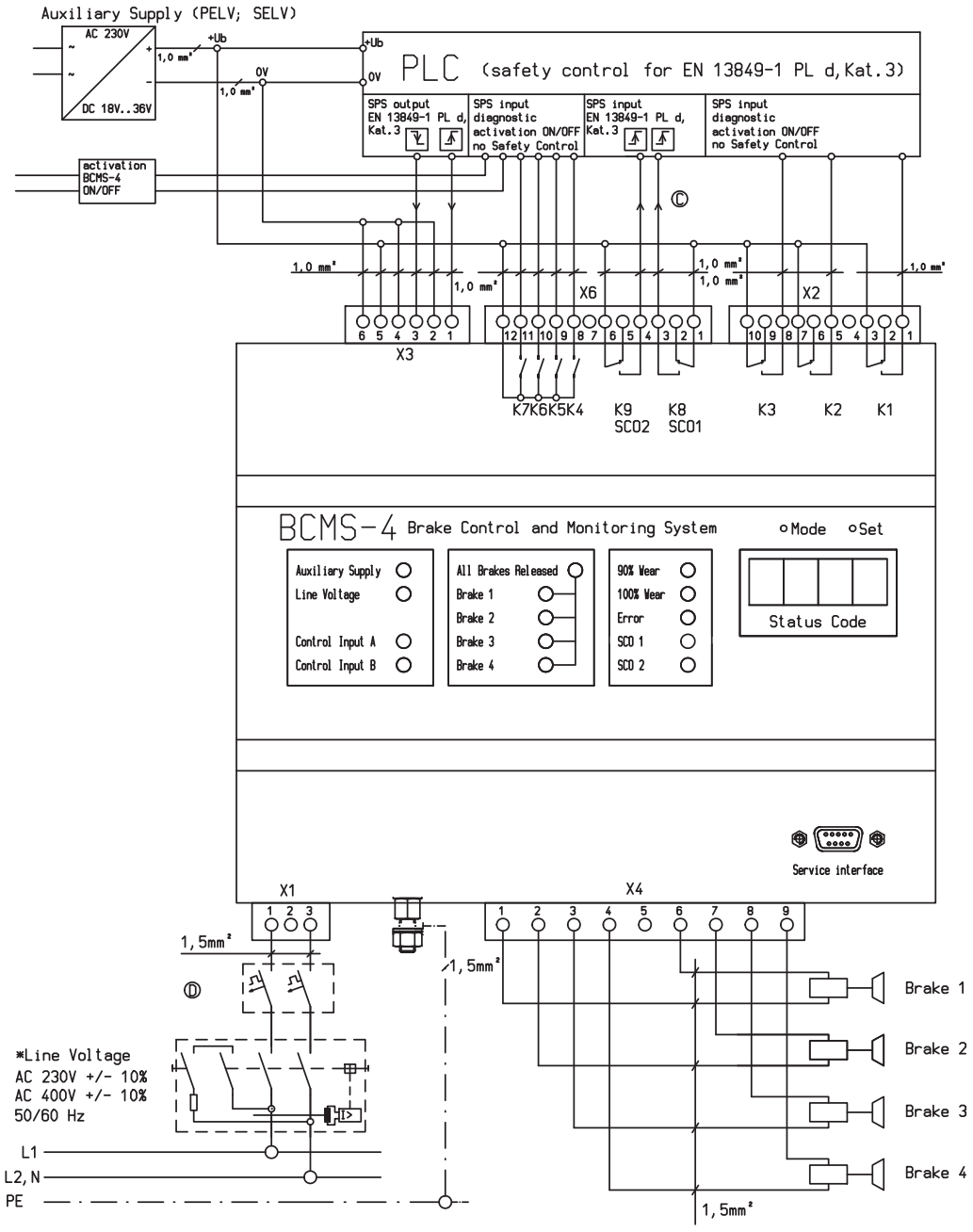
Rev. 11-11



Technical data

Permissible auxiliary power supplies:	AC 230V +/- 10%; 50/60 Hz AC 400V +/- 10%; 50/60 Hz
Ambient temperature:	-30°C …. +50°C
Protection class:	IP 20
Permissible coil voltages:	110 V DC and 207 V DC
security rating:	DIN EN ISO 13849-1 PL d, Cat 3
PFHD:	1.16^{-7}