Brake Control Unit BCU2001

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Connection diagram

Auxiliary voltage
DC 24V, 125V
AC 24V, 230V, 50/60Hz

Common

Signal "Brake released"

Signal "Wear control / Service"

Rated brake current
supply voltage
DC 24V, 39V

Do not open. No user serviceable parts inside.
Made in Germany

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

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## Description Brake Control Unit BCU2001

### Main Features

- EMC compatibility
- Maximum air gap (wear) indication by LED
- Maximum air gap indication by relay contact
- Function on/off indication by LED
- Function on/off indication by relay contact
- No sensors on the brake
- No sensor wiring to the brake
- Perfect retrofit equipment
- Directly connectable with PLC systems
- AC and DC auxiliary power supplies applicable
- Top-hat rail mounted

### Options

- Combinable with the switching rectifier SGL in overexcitation mode
- Combinable with bridge rectifier BGL-PE400/150/3
- Combinable with half-wave rectifier EGL-PE400/150/3

### Applications

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

### Important requirements

- AC and DC circuit to be switched simultaneously
- AC circuit may not be switched alone

### Method

The Brake Control Unit BCU 2001 records characteristic current and voltage variations, which are induced by movements of the armature disk in the magnetic field of the brake coil. In an interference free and reliable manner it evaluates the signal levels in terms of the control state (applied or released) and the maximum air gap (maximum wear).

### 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.

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**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.
Brake Control Unit BCU2001
Principal circuit diagram

Technical data

<table>
<thead>
<tr>
<th>Permissible coil voltages:</th>
<th>DC 24V…396V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature:</td>
<td>-40° C … +50° C</td>
</tr>
<tr>
<td>Protection class:</td>
<td>IP 20</td>
</tr>
<tr>
<td>Permissible auxiliary power supplies:</td>
<td>AC 24 V -15% ... AC 230 V +15%</td>
</tr>
<tr>
<td></td>
<td>DC 24 V -25% ... DC 110 V +15%</td>
</tr>
</tbody>
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