1566 U
6gang
Indicator insert

Operating Instructions
Busch-Infoline®
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1 Safety

Warning

Electric voltage!
Risk of death and fire due to electrical voltage of 230 V.
– Work on the 230V supply system may only be performed by authorised electricians!
– Disconnect the mains power supply prior to installation and/or disassembly!

2 Intended use

The device is to be used exclusively with the components that are supplied and licensed as described in chapter "Setup and function".

3 Environment

Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with domestic waste.
– The device contains valuable raw materials which can be recycled. Therefore, dispose of the device at the appropriate collecting depot.

All packaging materials and devices bear the markings and test seals for proper disposal. Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.

The products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.
(EU REACH ordinance and law for the implementation of the ordinance (EC) No.1907/2006)
4 Technical data

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
</tr>
<tr>
<td>Rated frequency</td>
</tr>
<tr>
<td>Nominal current</td>
</tr>
<tr>
<td>Protective class</td>
</tr>
<tr>
<td>Type of protection for device</td>
</tr>
<tr>
<td>Operating temperature range</td>
</tr>
<tr>
<td>Inputs</td>
</tr>
</tbody>
</table>

5 Setup and function

5.1 Features of function and equipment

- For the indication of up to six independent alarm and/or status messages.
- Division into 2 potential-separated groups possible.
- Additional group signal terminal for connecting additional Busch-Infoline® signal generators.
### 5.2 Possible combinations

<table>
<thead>
<tr>
<th>Indicator insert</th>
<th>1566 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>1518 U</td>
<td>X</td>
</tr>
<tr>
<td>1511 U</td>
<td>X</td>
</tr>
<tr>
<td>1515 U-12</td>
<td>X</td>
</tr>
<tr>
<td>1531 U</td>
<td>X</td>
</tr>
<tr>
<td>1575 CN-214</td>
<td>X</td>
</tr>
<tr>
<td>1575 CN-84</td>
<td>X</td>
</tr>
</tbody>
</table>
6 Installation and electrical connection

Warning
Electric voltage!
Risk of death due to electrical voltage of 230 V during short-circuit in the low-voltage line.
– Low-voltage and 230 V lines must not be installed together in a flush-mounted socket!

6.1 Requirements for the electrician

Warning
Electric voltage!
Install the device only if you have the necessary electrical engineering knowledge and experience.
• Incorrect installation endangers your life and that of the user of the electrical system.
• Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:
• Apply the "five safety rules" (DIN VDE 0105, EN 50110):
  1. Disconnect from power;
  2. Secure against being re-connected;
  3. Ensure there is no voltage;
  4. Connect to earth and short-circuit;
  5. Cover or barricade adjacent live parts.
• Use suitable personal protective clothing.
• Use only suitable tools and measuring devices.
• Check the supply network type (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).
6.2 Electrical connection

Circuit diagrams

Fig. 1: Circuit diagram of alarm signal insert as a single group
1 Normally open contact for LED activation | 2 Signal panel insert | 3 Signal generator

Fig. 2: Circuit diagram of signal panel insert as two groups

Terminal assignment

<table>
<thead>
<tr>
<th>Signal panel insert 1566 U</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal designation</td>
<td>Assignment</td>
</tr>
<tr>
<td>A1</td>
<td>Inputs for alarm / status signals</td>
</tr>
<tr>
<td>A2</td>
<td>Group signal output of 1st group (A1, A2, A3)</td>
</tr>
<tr>
<td>A3</td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td></td>
</tr>
<tr>
<td>A5</td>
<td></td>
</tr>
<tr>
<td>By</td>
<td>Group signal output of 2nd group (B1, B2, B3)</td>
</tr>
</tbody>
</table>
6.3 Mounting the device insert

1. Mount the device in a flush-mounted box according to DIN 049073-1.
2. Fix the device in the flush-mounted box with screws.
3. Mount the elements of the cover plate in the sequence shown in the illustration.

Fig. 4: Overview of installation

6.4 Division into potential-separated groups

<table>
<thead>
<tr>
<th>Position</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pos. 1</td>
<td>One group A1 + A2 + A3 + B1 + B2 + B3</td>
</tr>
<tr>
<td>Pos. 4</td>
<td></td>
</tr>
<tr>
<td>Pos. 2</td>
<td>Two potential-separated groups (A1, A2, A3) + (B1, B2, B3).</td>
</tr>
<tr>
<td>Pos. 3</td>
<td></td>
</tr>
</tbody>
</table>

Fig. 5: Indicator insert 1566 U
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