Module Description

Application

The module 89 NU02 is used for monitoring the temperature in PROCONTROL cubicles. The signal it generates is evaluated by the module for monitoring and flashing voltages 89 NU01.

The floating NO contact enables several monitoring modules to be connected in parallel without any problem.

Features

The module can be used in all PROCONTROL cubicles (multipurpose processing station, master station and monitoring station). It is always located above the highest module subrack on the wiring side inside the cubicle.

The module is plugged onto a subdistributor (see GKWE 001 798 P1) and connected (see Fig. 1). The connection lines are led from there to the module 89 NU01 (see module description "Module for monitoring and flashing voltages 89 NU01", GKWE 705 291).

Description

The module consists of a thermostatic switch in a metal box. This is soldered on a printed circuit board. The printed circuit board also contains two tab connectors. The thermostatic switch is connected to two tab connectors of the subdistributor via two connection lines. Two bore holes in the printed circuit board are used for plugging the module onto the subdistributor. The module is installed in accordance with the "Temperature sensor installation GKWE 601 492".

The following table shows the temperature monitoring range and other features of the module.

<table>
<thead>
<tr>
<th>Switching point</th>
<th>Tolerance on response temperature</th>
<th>Contact resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>upper &quot;close&quot;</td>
<td>lower &quot;open&quot;</td>
<td></td>
</tr>
<tr>
<td>$\Delta T_1$</td>
<td>$\Delta T_2$</td>
<td>$\Delta T_1$</td>
</tr>
<tr>
<td>$^\circ$C</td>
<td>$^\circ$C</td>
<td>$^\circ$C</td>
</tr>
<tr>
<td>67</td>
<td>50</td>
<td>$\pm$ 2.5</td>
</tr>
</tbody>
</table>

Technical data are subject to change without notice.

Mechanical design

Board size: 11.5 m x 19 mm, height (plugged in) approx. 40 mm

Contacts: 2 x tabs 2.8 via two connection lines (80 mm) with tabs 2.8

Weight: approx. 3 g

Ordering data

Order number, complete module: GKWE 852 400 R1

Figure 1: Fitting and connection of 89 NU02

Figure 2: Function diagram

Figure 3: Printed circuit board equipped (without lines)