Module and Application

Publication No.
GKWE 705 322 E, edition 09/90
Replacing GKWE 705 322 E, edition 06/88

Application

The transmitter simulation module for unused function units serves for wiring unused function units of input modules connected to the station bus and IO bus.

It is used in connection with monitored inputs of binary input modules, analog input modules or NAMUR input modules to simulate a connected transmitter.

The module is available in three hardware versions which differ by their resistance values.

Transmitter simulation modules are plugged into the cubicle-mounted connector half of the respective input module.

The following three versions are available:

81ES01/R0200 For binary input module 81EB02/R1020
Design: Resistor 47.5 kOhms

81ES01/R0300 For analog input module 81EA11/R0200/R0210
Design: Resistor 2.7 kOhms

81ES01/R0400 For NAMUR input module 81EN10/R0100
Design: resistor 1 kOhm

Description

Depending on the version, the transmitter simulation module comprises one resistor or one wire jumper, a small printed circuit board, and connecting elements for plugging into the cubicle mounted connectors of the input modules.

81EB02 Wiring specification

Unused function units of binary input modules 81EB02 have to be wired differently, depending on the module version.

81EB02/R1020
Unused function units have to be wired with transmitter simulation module 81ES01/R0200.
Wiring is done via the respective unused contacts RXX and SXX.

81EB02/R1122
Unused function units are not to be wired.

81EA11 Wiring specification

Unused function units of analog input modules 81EA11 have to be wired differently, depending on the module versions.

81EA11/R0100/R0110
Unused function units need not be wired.

81EA11/R0200/R0210
Unused function units have to be wired with transmitter simulation module 81ES01/R0300.
Wiring is done via the respective unused contacts EXX1 and EXX2.
(Appropriate switch S501...S516 in switch position 2).
81EA11/R0300/R0310

For unused function units jumpers are inserted on the cubicle-side connectors (EXX1 and EXX2) and they are connected to frame.

81EN10 Wiring specification

If Unused function units of the module are not wired, the respective function units generate a monitor response.

A transmitter simulation module 81ES01/R0400 shall be used to wire the unused function units.

Wiring is effected by way of the respective unused contacts RXX and SXX.

Function diagram

1 ohmic resistor

Technical data

In addition to the system data, the following values apply:

81ES01/R0200

Resistance value: 47.5 kohms
Loading capacity: 0.25 W

81ES01/R0300

Resistance value: 2.7 kohms
Loading capacity: 0.25 W

81ES01/R0400

Resistance value: 1 kohm
Loading capacity: 0.25 W

Permissible temperature ranges

Operating temperature: 0 °C ... 70 °C
Storage temperature: -40 °C ... 85 °C

ORDERING DATA

<table>
<thead>
<tr>
<th>Type designation</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>81ES01/R0200</td>
<td>GJR2355800R0200</td>
</tr>
<tr>
<td>81ES01/R0300</td>
<td>GJR2355800R0300</td>
</tr>
<tr>
<td>81ES01/R0400</td>
<td>GJR2355800R0400</td>
</tr>
</tbody>
</table>

Smallest packing unit (minimum quantity to be ordered) 15 items.

Technical data are subject to change without notice!