Pulse Totaliser
MC13-41Ex0-RP/24VDC
4 channels

The MC13-41Ex0-RP is used for totalizing pulses from four intrinsically safe input circuits. The input circuits of the device can process signals from analogue type proximity sensors (NAMUR), or mechanical contacts.

If a fault occurs in any input circuit, the common alarm output is de-activated (transistor not conducting, relay open) and the two-colour LED changes to red.

If a 32-pole connection is used, the output relays can be programmed in either N.O. or N.C. mode (programming with plug-in jumpers on the card).

Four parallel switching relay outputs and one pnp transistor output with thermally activated short-circuit protection are available as pulse outputs.

The input circuits are monitored for wire-break and short-circuit condition. If no faults are in any of the input circuits and the power is on, the common alarm output is enabled (transistor conducting, output relay closed). The two-colour LED for the affected outputs is yellow and the green "Power" LED is on.
Switching Amplifiers

Programming via front DIP-switches

The input functions are programmed via six DIP-switches.

<table>
<thead>
<tr>
<th>Channel</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N/K</td>
</tr>
<tr>
<td>2</td>
<td>N/K</td>
</tr>
<tr>
<td>3</td>
<td>N/K</td>
</tr>
<tr>
<td>4</td>
<td>N/K</td>
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</tbody>
</table>

Selection of the input mode (NAMUR sensors or contacts) is accomplished on the individual channels by activating the first four DIP-switches. Position K disables the input circuit monitoring, position N enables the input circuit monitoring.

The last two DIP-switches on the bottom are for common enabling or disabling of short-circuit and/or wire-break monitoring for all channels with the input circuit monitoring activated (switch position N):
- DIP-switch position K "OFF" short-circuit monitoring "OFF"
- DIP-switch position D "OFF" wire-break monitoring "OFF".

The maximum output frequency is 10 Hz, for higher frequencies (up to 1 kHz), the MC13-41Ex0-P card must be used instead.