The IPG is used together with the water meter types UNICO, MTW, MTWH and MTK. This pulse generator is based on the Reed technology and is suitable for low-frequency signals. The Reed contacts are potential-free and equipped with an additional protective resistance against inductive interference voltage. The pulse generator type IPG 14 is mainly used for GWF volume measuring parts as a component of a heat meter, as well as for GWF water meters for remote indicators, pulse collectors, pulse processing systems/long term pulse acquisition systems and frequency converters.

### Application

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### Technical data

<table>
<thead>
<tr>
<th>Switching element</th>
<th>Reed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switching voltage</td>
<td>max. 42 V AC/DC</td>
</tr>
<tr>
<td>Switching current</td>
<td>100 mA</td>
</tr>
<tr>
<td>Switching capacity</td>
<td>4 W</td>
</tr>
<tr>
<td>Resistor</td>
<td>18 Ohm</td>
</tr>
<tr>
<td>Conductor cross section</td>
<td>0,14 mm²</td>
</tr>
<tr>
<td>Switching cycles</td>
<td>Approx. 10⁷</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard cable length *</th>
<th>Isolation</th>
<th>Thermal limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,2 m</td>
<td>PVC grey</td>
<td>max. 90°C</td>
</tr>
<tr>
<td>1,5 m</td>
<td>TPE grey</td>
<td>max. 130°C</td>
</tr>
<tr>
<td>3,0 m</td>
<td>TPE grey</td>
<td>max. 130°C</td>
</tr>
</tbody>
</table>

*Other lengths on request
**Tips / Recommendations for a secure pulse transmission**

**Continuous contact:** The Reed switch emits pulses of varying length depending on the water meter flow rate. Continuous contact can also appear if counter operation is interrupted. Connected devices must be able to withstand continuous contact or protective measures must be provided (wiping contact).

**Long distances:** For distances longer than 100m without signal amplifier, we recommend the use of shielded and twisted cables (see instruction leaflet cable recommendations).

**Interfered pulse transmission:** In case of interferences during the pulse transmission between the pulse generator and the pulse receiver, (i.e. cable in the same duct as power cable, etc.), we recommend shielded and twisted cables.

**Connection scheme**

![Connection scheme](image.png)