1. Features

Filter elements are economically used only if their dirt holding capacity is fully exploited. A reliable indication of the optimal time to replace the element is therefore vital. These maintenance indicators include a DIN EN 175301-803 plug connection and are available in normally open, normally closed or change-over contact type version. Thanks to the MAHLE modular system these maintenance indicators can be used with all MAHLE pressure filters.
2. Differential pressure indicators

Fig. 1  
Fig. 2

<table>
<thead>
<tr>
<th>Nominal pressure [bar]</th>
<th>Temperature [°C]</th>
<th>Type</th>
<th>Order number</th>
<th>Indicator setting [bar]</th>
<th>Indication</th>
<th>Contact-type*</th>
<th>Fig.</th>
<th>Material housing</th>
<th>Material plug connection</th>
</tr>
</thead>
<tbody>
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<td>160</td>
<td>-30 - +120</td>
<td>PiS 3209</td>
<td>70520470</td>
<td>2.2</td>
<td>electr.</td>
<td>norm. closed</td>
<td>1 + 2</td>
<td>Al</td>
<td>PA</td>
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<td>PiS 3212</td>
<td>70520472</td>
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<td></td>
<td>PiS 3215</td>
<td>70520477</td>
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<td>PiS 3210</td>
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</tr>
</tbody>
</table>

*Contact type

1 Normally open or normally closed; 1 setting point; DIN EN 175301-803; max. 48 V DC; max. 0.5 A
2 Change-over contact; 1 setting point; DIN EN 175301-803; max. 48 V; max. 0.5 A

3. Technical specifications

3.1 Contact type normally open/normally closed

Contact type 1
Types PiS 3209, 3210 normally closed
Types PiS 3212, 3213 normally open
Material seal: NBR*
Max. voltage: 48 V DC
Max. current: 0.5 A
Contact load: 10 VA
Type of protection: IP 65 in inserted and secured status
Plug connection: DIN EN 175 301-803

3.2 Contact type Change-over contact

Contact type 3
Types PiS 3215, 3216 change-over contact

for further technical details see 3.1

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