Technical features

Operation:
TQM/31, QM/32 normally open with LED (yellow)
Switching voltage (Ub):
10 ... 240 V a.c./d.c.
Switching voltage output:
Ub - 2 V (QM/32)
Switching current (see graph overleaf):
1 A max. (QM/32)
Switching power:
50 W/50 VA max.

Contact resistance:
100 mΩ
Response time:
3 ms
Operating temperature:
-20 ... +80°C (-4 ... +176°F)
High temperature version:
+150°C max. (TQM/31) (+302°F)
Protection rating (EN 60529):
IP 66
Shock resistance:
50 g (during 11 ms)

Vibration resistance:
35 g (50 to 2000 Hz)
Electromagnetic compatibility according to:
EN 60947-5-2

Materials:
Body: plastic
Cable: see table below

Technical data

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Voltage (V a.c.)</th>
<th>Current max. (A)</th>
<th>Function</th>
<th>Operating temperature (°C)</th>
<th>LED</th>
<th>Protection class</th>
<th>Features</th>
<th>Cable length (m)</th>
<th>Cable type</th>
<th>Weight (g)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU</td>
<td>10 ... 240</td>
<td>10 ... 240</td>
<td>1</td>
<td>Closer</td>
<td></td>
<td>IP66</td>
<td>—</td>
<td>2, 5 or 10</td>
<td>PVC 2 x 0,75</td>
<td>108</td>
<td>QM/32/*</td>
</tr>
<tr>
<td>BN</td>
<td>10 ... 240</td>
<td>10 ... 240</td>
<td>1</td>
<td>Closer</td>
<td></td>
<td>IP66</td>
<td>—</td>
<td>2</td>
<td>PUR 2 x 0,75</td>
<td>108</td>
<td>QM/32/2/PU</td>
</tr>
<tr>
<td>BU</td>
<td>10 ... 240</td>
<td>10 ... 240</td>
<td>2</td>
<td>Closer</td>
<td></td>
<td>IP66</td>
<td>High temperature</td>
<td>2, 5 or 10</td>
<td>Silicon 2 x 0,75</td>
<td>102</td>
<td>TQM/31/*</td>
</tr>
<tr>
<td>BN</td>
<td>10 ... 240</td>
<td>10 ... 240</td>
<td>1</td>
<td>Closer</td>
<td></td>
<td>IP66</td>
<td>Plug M12 x 1</td>
<td>—</td>
<td>—</td>
<td>15</td>
<td>QM/32/P *1</td>
</tr>
</tbody>
</table>

* Insert cable length
*1) Plug-in connector see page 2

Color code: BK = black, BN = brown, BU = blue

Options selector

Variants Substitute
High temperature (+150°C), for TQM/31/* only T
Type Substitute
Reed with LED 2
Reed without LED, for TQM/31/* only 1

Cable Substitute
PVC Without
PUR PU

Cable length/plug Substitute
2 m 2
5 m 5
10 m 10
With plug Substitute
M12 x 1 P
**Warning**

These products are intended for use in industrial systems only. Do not use these products where values can exceed those listed under "Technical features/data".

Before using these products with non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in control systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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**Dimensions**

**TQM/31, QM/32**

![Dimensions of TQM/31 and QM/32](image)

**QM/32/P**

![Dimensions of QM/32/P](image)

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