MOS8 and MOS16 are Mosaic family modules equipped respectively with 8 and 16 signaling outputs (programmable through MSD configuration software).

The modules communicate with the M1 controller via the proprietary bus MSC and provide the output signals through their terminal blocks.

**Electrical Connections**

<table>
<thead>
<tr>
<th>PIN</th>
<th>SIGNAL</th>
<th>DESCRIPTION</th>
<th>OPERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24VDC</td>
<td>24VDC power supply</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>NODE_SEL0</td>
<td>Node selection</td>
<td>Input (&quot;type B&quot; according to EN 61131-2)</td>
</tr>
<tr>
<td>3</td>
<td>NODE_SEL1</td>
<td>Node selection</td>
<td>Input (&quot;type B&quot; according to EN 61131-2)</td>
</tr>
<tr>
<td>4</td>
<td>0VDC</td>
<td>0VDC power supply</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>OUT_STATUS 1-8</td>
<td>24VDC power supply signaling outputs 1-8</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>24VDC power supply signaling outputs 9-16</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>OUT_STATUS1</td>
<td>Programmable signaling output 1</td>
<td>PNP active high</td>
</tr>
<tr>
<td>10</td>
<td>OUT_STATUS2</td>
<td>Programmable signaling output 2</td>
<td>PNP active high</td>
</tr>
<tr>
<td>11</td>
<td>OUT_STATUS3</td>
<td>Programmable signaling output 3</td>
<td>PNP active high</td>
</tr>
<tr>
<td>12</td>
<td>OUT_STATUS4</td>
<td>Programmable signaling output 4</td>
<td>PNP active high</td>
</tr>
<tr>
<td>13</td>
<td>OUT_STATUS5</td>
<td>Programmable signaling output 5</td>
<td>PNP active high</td>
</tr>
<tr>
<td>14</td>
<td>OUT_STATUS6</td>
<td>Programmable signaling output 6</td>
<td>PNP active high</td>
</tr>
<tr>
<td>15</td>
<td>OUT_STATUS7</td>
<td>Programmable signaling output 7</td>
<td>PNP active high</td>
</tr>
<tr>
<td>16</td>
<td>OUT_STATUS8</td>
<td>Programmable signaling output 8</td>
<td>PNP active high</td>
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<tr>
<td>17</td>
<td>OUT_STATUS9</td>
<td>Programmable signaling output 9</td>
<td>PNP active high</td>
</tr>
<tr>
<td>18</td>
<td>OUT_STATUS10</td>
<td>Programmable signaling output 10</td>
<td>PNP active high</td>
</tr>
<tr>
<td>19</td>
<td>OUT_STATUS11</td>
<td>Programmable signaling output 11</td>
<td>PNP active high</td>
</tr>
<tr>
<td>20</td>
<td>OUT_STATUS12</td>
<td>Programmable signaling output 12</td>
<td>PNP active high</td>
</tr>
<tr>
<td>21</td>
<td>OUT_STATUS13</td>
<td>Programmable signaling output 13</td>
<td>PNP active high</td>
</tr>
<tr>
<td>22</td>
<td>OUT_STATUS14</td>
<td>Programmable signaling output 14</td>
<td>PNP active high</td>
</tr>
<tr>
<td>23</td>
<td>OUT_STATUS15</td>
<td>Programmable signaling output 15</td>
<td>PNP active high</td>
</tr>
<tr>
<td>24</td>
<td>OUT_STATUS16</td>
<td>Programmable signaling output 16</td>
<td>PNP active high</td>
</tr>
</tbody>
</table>
Light signals

**LIGHT SIGNALS - NORMAL OPERATION**

<table>
<thead>
<tr>
<th></th>
<th>RUN</th>
<th>IN FAIL</th>
<th>EXT FAIL</th>
<th>SEL 0/1</th>
<th>STATUS 1/8 (MOS8)</th>
<th>STATUS 1/16 (MOS16)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN</td>
<td>OFF operation OK</td>
<td>OFF</td>
<td>RED</td>
<td>RED</td>
<td>ORANGE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>RED</td>
<td>OFF operation OK</td>
<td>OFF</td>
<td>RED</td>
<td>RED</td>
<td>ORANGE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>EXT FAIL</td>
<td>OFF</td>
<td>OFF</td>
<td>RED</td>
<td>RED</td>
<td>ORANGE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>SEL 0/1</td>
<td>OFF</td>
<td>OFF</td>
<td>RED</td>
<td>RED</td>
<td>ORANGE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>STATUS 1/8 (MOS8)</td>
<td>OFF</td>
<td>OFF</td>
<td>RED</td>
<td>RED</td>
<td>ORANGE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>STATUS 1/16 (MOS16)</td>
<td>OFF</td>
<td>OFF</td>
<td>RED</td>
<td>RED</td>
<td>ORANGE</td>
<td>YELLOW</td>
</tr>
</tbody>
</table>

OFF: the module waits the first communication from the MASTER

BLINKING: configuration does not require the INPUT or OUTPUT from Module

ON: configuration requires the INPUT or OUTPUT from Module

Shows the NODE_SEL0/1 selection

(Ref. MOSAIC technical manual)

**Technical Data**

<table>
<thead>
<tr>
<th>Module</th>
<th>MOS8</th>
<th>MOS16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>24VDC ± 20%</td>
<td></td>
</tr>
<tr>
<td>Max output current</td>
<td>100mA@24VDC (each output)</td>
<td></td>
</tr>
<tr>
<td>Max dissipated power</td>
<td>3W</td>
<td></td>
</tr>
<tr>
<td>Signaling outputs</td>
<td>Programmable - PNP active high</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>User connection</td>
<td>Terminal blocks (16)</td>
<td>Terminal blocks (24)</td>
</tr>
<tr>
<td>Connection to M1</td>
<td>Via MSC bus</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 ÷ 55°C</td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 ÷ 85°C</td>
<td></td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10% ÷ 95%</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>(h x l x d)</td>
<td>108 x 22,5 x 114,5 mm</td>
</tr>
</tbody>
</table>