Extension components "I/O-extensions" KSM 131 R

Product KSM 131 R
Measurments in mm (h x d x w): 100 x 115 x 90

Description
Digital I/O expansion series for the KSM90 series. The module will be connected to the main module via the Back-Plane Connector by just clicking it in.
The expansion module provides 2 safe I/Os, which could be selectively configured as an input or an output. Additional 12 safe inputs, 2 messaging outputs and 4 safe relay outputs.

- 12 safe inputs thereof OSSD compatible;
- 2 safe I/O’s configurable as input or output;
- 4 safe relay outputs
- Short circuit monitoring
- Multiplexing of contacts or contact amplification via external contactors in connection with internal monitoring
- Comprehensive diagnostics implemented in FW

Technical data

<table>
<thead>
<tr>
<th>Safety characteristics</th>
<th>General data</th>
<th>Electrical data</th>
<th>Environmental data</th>
<th>Mechanical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per the Act EN 61508 SIL 3</td>
<td>Proof-test-interval: 20 years = max. period of application</td>
<td>Power consumption: Max. 0.2 W</td>
<td>Temperature: 0°C up to 50°C operational temp.; -10°C up to +70°C storage temp.</td>
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<tr>
<td>Per the Act EN 61508 SIL 3</td>
<td></td>
<td>Rated data digital In: 24 VDC, 250 mA</td>
<td>Protection rating: IP20</td>
<td></td>
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<tr>
<td>Per the Act EN 61508 SIL 3</td>
<td></td>
<td>Rated data digital Out: 24 VDC, 250 mA</td>
<td>Climate class: 3 in accordance to DIN 40175</td>
<td></td>
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<tr>
<td>Per the Act EN 61508 SIL 3</td>
<td></td>
<td>Types of connectors: Terminal blocks</td>
<td>EMS: According to EN 50011 and EN 61800-5-2</td>
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<tr>
<td>Per the Act EN 61508 SIL 3</td>
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<td>Max. relative humidity: 95%</td>
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<td>Per the Act EN 61508 SIL 3</td>
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<td>Weight: 400 g</td>
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<td>Per the Act EN 61508 SIL 3</td>
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<td>Mounting: Snap-on mounting on standard head rail</td>
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<tr>
<td>Per the Act EN 61508 SIL 3</td>
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<td>Max. terminal cross-section: 1.5 mm²</td>
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</tbody>
</table>

Pin Out - terminal diagram:

KSM 131 R - I/O overview:

- Quantity of I/O’s
  - 4 digital inputs
  - 2 digital outputs / pulse outputs

- Safe I/O’s configurable as input or output
  - Safe inputs thereof 8 OSSD compatible

- Additional safe I/O’s, which could be selectively configurated as an input or an output
  - Safe I/O’s, which could be selectively configurated as an input or output

- Comprehensive diagnostics implemented in FW

Safety without limits!