**Basic components » Series KSM100 » KSM 100-1-PN**

**Product KSM 100-1-PN**

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>Open programmable safe PLC for machinery and plant construction. The modules can be enhanced up to 130 safe I/Os and/or up to 12 axes. The KSM 100-1-PN supplies 14 safe inputs and 3 safe cut-off channels as well as a memory card slot for easy program and configuration change, option fieldbus interface can be integrated. The continuous function chart oriented programming frame SafePLC allows an easy and comfortable implementation of safety related tasks. The threens of modules offers an comprehensive library for standard functions for safe signal handling of safety related sensors and actors as well as for practical technology functions especially for safety isolation of drives. The spectrum of the module reaches from conventional safe logic processing through simple safe speed monitoring tasks of single axes up to complex safe multi-dimensional speed- and range zone monitoring in multiple axes processing. The PROFINET communication devices used to exchange non-safe data between KSM modular device and non-safe control systems. The configuration of the non-safe data via SafePLC of modular device. The devices must be parameterized as a PROFINET slave device.</td>
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<th>Safety characteristics</th>
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<td>Pin in accordance to EN 1849</td>
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<td>±10V</td>
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**General data**

- PinArchitecture Up: E3 - 15 (Architecture Class 4)
- SL in accordance to EN 61131 SL 3
- Profibus protocol 40 years = max. period of application
- Max. number of extension modules 2
- Interface for external module 1.4 pin connector (pluggable assembly) / KSM 51 line extender (plug-in assembly)
- Safe digital input lines 1 x +5VDC
- Safe digital output lines 2
- Safe analog inputs 2
- Safe relay inputs 2
- Safe relay outputs 4
- Standard output lines 2
- Safe output lines (protection) not selectable
- Type of connectors Plugable terminals
- Pinout - terminal diagram

**Electrical data**

- Supply voltage 24 VDC/2A and 230 VAC/2A
- Compliance 24VDC;
- Power consumption Max. 20W
- Rated digital input 24 VDC 24VAC 0.2A Type 1 accordance to EN61131-2
- Rated digital input 24VAC 24VAC 0.2A Type 1 accordance to EN61131-2
- Rated digital input 24VDC and 24VAC 0.2A Type 1 accordance to EN61131-2
- Rated digital output lines 2
- Rated digital relay output lines 2
- Max. fuse on supply voltage 2A
- Environmental data
- Temperature 0° up to 50° (operational temp. - 10° up to +70° storage temp. -70° to +85°) according to EN 61131-2
- Protection rating IP 52
- Mechanical data
- SizE (BxHxL) 100x115x90
- Weight 570g
- Mounting 3-pin mounting on standard rail
- Max. terminal side section 1.5 mm²

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**KSM 100-1-PN – sketch diagram**

**Pin Out - terminal diagram**

**Safety without limits!**