**Basic componentries » Series KSM100 » KSM 100-4-EC**

**Product KSM 100-4-EC**

**Measurements** (in mm) [Kollmorgen Products 2013-13 19.08.2013 9:21 Uhr Seite 28]

- **Description:**
  - Open programmable safe PLC for machinery and plant construction. The modules can be enhanced up to 100 safe I/Os and/or up to 12 axes.
  - The KSM 100-4-EC supplies 20 safe I/Os, 14 safe inputs and 6 safe cut-off channels as well as a memory card slot for easy program and configuration change.
  - The continuous function chart oriented programming frame SafePLC allows an easy and comfortable implementation of safety related tasks. The firmware of modules offers an extensive library for standard functions for safe signal processing of safety related sensors and actors as well as for practical technology functions especially for safe isolation of drivers.
  - The spectrum of the module ranges from conventional safety logic processing through simple safe speed monitoring tasks of single axes up to complex safe more dimensional speed- and range/zone monitoring in multiple axes processes.

- **The EtherCAT communication device 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 devices. The device must be parameterized as an EtherCAT slave device.**

- **Technical data**

  - **Safety characteristics**
    - In accordance to EN 1889
    - Type 62 - 10 (Architecture Class 4)

  - **General data**
    - Max. number of extension modules: 6
    - Interface for extension module: 1 bus connector (compact assembly / KSM 01 plus extension module [recessed assembly])
    - Safe digital input lines: 10 (inc. 1 DO output)
    - Safe digital output lines: 40
    - Safe analog-in
    - Safe relay outputs: 10
    - Standard output lines: 40
    - Pulse output lines (time-shock cut detection): 4
    - Type of connectors: plugable terminals

  - **Data interface**
    - EtherCAT
    - 100MBits in half-duplex mode

  - **Electrical data**
    - Supply voltage: 24 VDC/2A
    - Tolerance: ±10% - 20%
    - Power Consumption: Max. 5W
    - Rated data digital in: 24 VDC 20mA, Type 62 in accordance to EN61312
    - Rated data digital out: 24 VDC 20mA and NO W/NO
    - Pulse output lines (time-shock cut detection): Max. 250mA

  - **Environmental data**
    - Temperature: -10° up to 50° (operational temp) -10° up to 70° (storage temp.
    - Protection rating: IP 65
    - Relative Data: 95 in accordance to EN 61131-2
    - EMI: According to EN 61801-1 and EN 61000-6-2

  - **Mechanical data**
    - Size (H x W x D): 100 x 350 x 100
    - Weight: 1,930 g
    - Mounting: Wall mounting on standard head nut

  - **Order informations:**
    - KSM 100-4-EC
    - Order: Module Basic Module + 40 I/O with EtherCAT

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    - Module Basic Module + 40 I/O with EtherCAT

**For more informations please visit our website: www.kollmorgen.com**

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