Product KSM 121-2

**Description**

Extension module for safe motion of one drive axes with enhanced encoder interface. The module is suitable for the use with an KSM100 series module. The module will be connected to the basic module via the Back-Plane-Connector just by snapping it on the head rail.

The module supports 1 encoder solutions (Inc+ - TTL/HTL, Resolver, Sin/Cos, Profi-Box) and also 2 encoder solutions (variable combination of encoders possible).

The module provides 12 safe inputs for connecting safety related peripherals.

- Encoder interface for 2 x Inc+ - TTL/HTL, Resolver, Sin/Cos, Profi-Box front side and 1 x HTL using terminal clamps.
- 12 safe inputs
- Cross-circuit monitoring by pulse outputs of the basic module
- Comprehensive diagnostics implemented in FW
- Powersupply to basic module

**Technical data**

**Safety characteristics**

- In accordance to EN 118410 P1a
- IN/OUT compliant
- Safe digital input line 12 x 4, 0550

**General data**

- Drive monitoring - number of axes 1 axis
- Encoder Interface: 1 Encoderinput Technology SIN/COS, Enc-TTL, Resolver
- Max Frequency SW/DCS, Inter TTL: 300 kHz
- Clock frequency/Res SSI Master Mode 150 kHz/Slave Mode 250 kHz
- Clock frequency/Res SSI Slave Mode 100 kHz
- Type of connections NC 0-LO 0-HI 0.2 mm DC
- Encoder Interface 2 (terminology - number/technology) 2 x Profi-Box, sine HTL
- Max frequency HTL 10 kHz
- Type of connections Profi-Box technology

**Electrical data**

- Power consumption 24 V DC: 20mA, Type 1 in accordance to EN 60131-2
- Rated data digital I/O 24 VDC: 20mA, Type 1 in accordance to EN 60131-2

**Environmental data**

- Temperature 0° up to 50° operational temp.; -10° up to +70° storage temp.
- Protection rating IP 20
- Climate class II in accordance to EN 60721
- EMV According to EN 55011 and EN 61000-6-2

**Mechanical data**

- Sensor fixing type TMB-116-255
- Weight 22,5 x 115 x 45
- Mounting Snap-on mounting to standard head rail
- Max. terminal cross-section 1.5 mm²

**Pin Out - terminal diagram**

The variable encoder power supply has to be provided external. It will be internal monitored.

**Sensor Interface - Pin Out**

**KSM 121-2 – I/O overview**

- Switchable encoder power supply
- Sensor input and output with an KSM 100 series module. The module will be connected to the basic module via the Back-Plane-Connector just by snapping it on the head rail.

**KSM 121-2 – sketch overview**

- Full documentation available on the Kollmorgen AKD Product DVD

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