

Kuhnke FIO

Control Technology

Kuhnke FIO CAM Control CAM control device

Kuhnke FIO CAM Control is a system solution for both stand-alone and team-ready applications enabling the quick and accurate combination of precision, dynamics and efficient engineering.

The module of the FIO Drive Control range mainly excels in mechanical engineering and special-purpose machinery design which demand highly accurate control with reference to the machine position. These machines are generally marked by their cyclic and continual processes.

A rotary encoder feeds actual readings to Kuhnke FIO CAM Control which in turn actuates the machine functions according to the switch cams set by the user program and taking heed of dead times as appropriate or desired. Besides time depending switching of the outputs it is also possible to use only one encoder via EtherCAT® to feed several FIO CAM Control modules synchronized. The configuration of the CAM functions can easily be done with the software tool FIO CAM-Creator.

Integrated functions:

- dead time compensation, time cam
- speed-change scale – speed dependent cam program selection
- transmission of encoder data via EtherCAT



Technical Data

Type	Kuhnke FIO CAM Control
CAM tracks (outputs)	24 x 0.5 A (dead time compensation 1 up to 5000 ms) + 8 software tracks, 8 cams / track
Total output current I_{tot}	4.5 A
Digital Inputs	1 x 24 V DC, 1 ms, 4 x 24 V DC or 0..10 V (choose by program setting)
Encoder interface	Incremental 24V DC, A, B, Ref., Absolute encoder via CAN
CAM programs	32
Cycle Time	20 µs
Max. speed	1000 1/min (@ resolution 1°)
Fieldbus	EtherCAT® 100 Mbit/s LVDS: E-Bus
Mounting	35 mm DIN-Rail
Indication	LED, assigned to the clamping point locally
Shield connection	Directly at module
I/O connection	Spring- loaded plug with mechanical ejection
Ambience conditions	0 °C ...+55 °C, IP 20, Interference immunity Zone B per EN 61131-2
Housing (W x H x D)	Aluminum, plastic, 25 x 120 x 90 mm
Certifications	CE, cULus (planed)

We reserve the rights of modification, omission, error with respect to the products. Illustrations similar. All rights reserved by the individual copyright holders. EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. Safety over EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. Microsoft®, Windows® and the Windows® Logo are registered trademarks of Microsoft Corporation in the USA and other countries. At www.plcopen.org you will find more information about PLCOpen Organisation. CODESYS is a product of 3S-Smart Software Solutions GmbH. CiA® and CANopen® are registered community trademarks of CAN in Automation e.V. . PROFINET® is a registered trademark of PROFIBUS and PROFINET International (PI).