

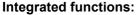
Kuhnke FIO Control Technology

Kuhnke FIO MIX 111

EtherCAT®- Multifunctional Bus Terminal

This module series combines many different I/O signals to an intelligent module, saving the limited space in the control cabinet and reducing the variety of modules required in an EtherCAT® system. Under the system name FIO MIX complements the series of highly compact and multifunctional I/O modules the Kuhnke EtherCAT I/O family.

The Kuhnke FIO MIX 111 module provides besides 2 analogue inputs and 2 analogue outputs, each configurable for current and voltage, 12 digital inputs and 8 digital outputs. Thereby defined IOs can also be configured for special functions e.g. 2 event counters, 2 A-B-Z encoder, 4 pulse-train outputs (PTO) or 4 PWM outputs. The configuration in CODESYS is done by pluggable modules with corresponding slots. Each slot thereby represents e.g. one analogue channel or an encoder interface. This procedure bases on "EtherCAT Modular Device Profile".



- Functions selectable by using CODESYS V3 libraries
- Signal preprocessing on the module
- Customizing possible



Technical Data	
Туре	Kuhnke FIO Mix 111
Order no.	694 444 66
Integrated I/Os	10 x DI 24 V 0,3 ms (konfigurable filters) 2 x DI / AI 24 V 0,3 ms (konfigurable filters) / 010 V, 12 Bit 8 x DO 4 x 24 V 0,5 A / 4 x 24 V 0,25 A 2 x AI 010 V, 0/420 mA, 12 Bit 2 x AO 010 V, 0/420 mA, 12 Bit Integrated functions (reducing the number of available I/Os): 4 x event counter (2 x 32bit, 2 x 16bit, 200kHz), 2 x Encoder A-B-Z (200 kHz), 4 x Timestamp (1µs resolution, 32Bit counting depth) 2 x encoder supply or 2 x frequency generator (100 kHz) or 4 x PWM (50 kHz) or 2 x PTO axis (100 kHz, Step/Dir + opt. PTO enable)
Specialties	EtherCAT operation in Free RUN or DC-synchronous mode, analogue values provided in physical units
Power supply	24 VDC (-20% / +25%)
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 acc. EN 61131-2
Housing (W x H x D)	Aluminium, plastic, 25 x 120 x 90 mm
Certifications	CE (industy), cULus

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. Microsoft®, Windows® and the Windows® Logo are registered trademarks of Microsoft Corporation in the USA and other countries. At www.popen.org you will find more information about PLCopen Organisation. CODESY's is a product of SS-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).