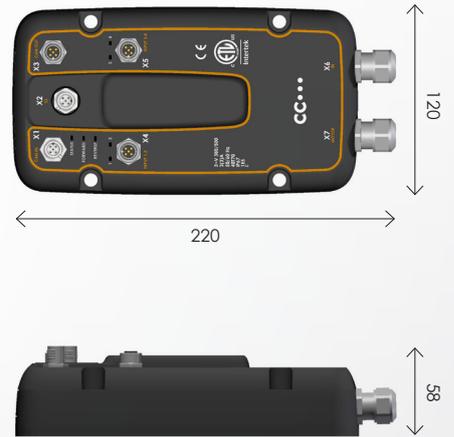(mm)

120

220

58

CrossFire EX RUGGED I/O-MODULE FOR ELECTRICAL MOTOR CONTROL

CrossFire EX is a CANopen device for controlling electrical motors in demanding industrial applications. It features high driving capacity and extraordinary resistance to voltage surges.

Inputs are configurable and can be used for motor end stop indication but also for generic remote input signals. The rugged design enables location close to the electrical motor it controls, mitigating risks associated with long signal cabling. **Turn for technical specifications »**

crosscontrol
AN ACTUANT COMPANY

CrossFire EX PRODUCT SPECIFICATIONS

KERNEL

PROCESSOR	STM32F103
FLASH MEMORY	512 kByte
RAM	64kByte

HMI

STATUS LED	Red/green LED for Status Monitoring LED for each I/O connector
NODE ID	ID keying with 16 positions, 127 positions with SW

COMMUNICATION INTERFACES

CAN	ISO 11898 2.0B, Bit-rate configurable 20–250 kbps. (1 Mbit optional)

CANOPEN DEVICE SPECIFICATION

TYPE	CANopen slave, DS 401
BIT RATE	Configurable, 20–1000 kbps
NODE ID	Read from id-keying in connector or set via SDO call
NODE STATES	Pre-operational, Operational and Stopped
SDO	All settings configurable by SDO's
PDO	Supports all transmission types, event timer and inhibit time. Dynamic mapping supported
NMT	Heartbeat producer Guarding also supported

4 x INPUT PORTS

CONFIGURABLE	Digital limit Digital input Analogue limit Analogue input Forward command Reverse command
RANGE	0–35 V
ACCURACY	+/- 2.5 %
RESOLUTION	12 bit

POWER

VOLTAGE	24 VDC nominal for logic 380–500 VAC for AC power

ENVIRONMENT

IP CLASS	IP67
TEMPERATURE RANGE (°C)	-40 to +70 (operating) -40 to +85 (storage)
EMC CONFORMITY	EN 61000-6-4 for emissions EN 61000-6-2 for immunity
VIBRATION	IEC 60068-2-6
SHOCK	IEC 60068-2-27

ENCLOSURE

MATERIAL	Aluminium
CONNECTORS	DIN M12 Open ended PUR cable for motor control

MOTOR CONTROL

MAX PEAK VOLTAGE	1600 VAC
MAX CURRENT	3 A cont, 20 A for 5 sec
ISOLATION VOLTAGE	2500 VRMS LOGIC – POWER 2500 VRMS POWER – CASE
STATUS FEEDBACK	Current and voltage measurement
PROTECTION	Over current, over voltage and phase error

SIZE AND WEIGHT

W x H x D (mm)	120 x 220 x 58
WEIGHT (kg)	2.2

crosscontrol

AN ACTUANT COMPANY

Sales contact: sales@crosscontrol.com | **General:** info@crosscontrol.com | www.crosscontrol.com