

# EtherCAT I/O Modules

## Multifunctional E-I/O Modules



- Compact EtherCAT I/O extension
- Modularly expandable
- Can be used centrally and decentrally
- Connection with Ethernet lines up to 100m
- CODESYS V3 support
- Easy configuration
- Up to 16 digital Inputs
- Up to 4 counters or encoders
- Up to 8 digitals Outputs
- Up to 8 analog Inputs
- Up to 4 analog Outputs

Data		
Description	XR01 ENC/C DAIO 8/8/4/4	XR02 ENC/C DIO 8/8
Art. No.	204803101	204803201
Dimensions WxHxD [mm]	25 x 120 x 90	
Weight	Approx. 150 g	
Mounting	Mounting rail NS 35/7,5 EN 50022	
Certification	CE (EN 61131-2) / cULus (UL 61010-2-201)	
Development environment	CODESYS V3 (IEC61131-3)	
Communication interfaces	1 x EtherCAT, LVDS	
Protocols	EtherCAT Slave	
Digitale I/O	8 x digital In- or Outputs (4 x Capture Input) 8 x digital Input (configurable as up-down counter or quadrature encoder)	8 x digital In- or Outputs (4 x Capture Input) 8 x digital Eingang (2 x up-down counter and 2 x quadrature encoder)
	1ms / 0,5A max. 10 kHz Counting frequency per counting input (results in a counting frequency of 40 kHz for quadrature encoders)	1ms / 0,5A max. 10 kHz Counting frequency per counting input (results in a counting frequency of 40 kHz for quadrature encoders)

Data		
Description	XR01 ENC/C DAIO 8/8/4/4	XR02 ENC/C DIO 8/8
Analog I/O	4 x analog Input Voltage 4 x universal analog In- or Output (configurable)	-
	-10..10V -20..20mA	-
	Resolution Inputs: 22 Bit Resolution Outputs: 16 Bit	-
Supply Voltage	+24 VDC (-20% / +25%) SELV max. AC voltage component 5% with reverse polarity protection	
Current consumption Module	Typ. 0,14 A, max. 0,2 A at +24 VDC	
Current consumption I/Os	Fuse protection depending on the load of the I/Os max. 12 A	
Operating conditions Transport / Storage	Ambient temperature: operational: 0 °C bis 50 °C / transport: -25 °C bis +70 °C	
	Relative humidity: max. 95 %, non-condensing	
<b>EMC, protection type</b>		
Emitted interference	EN 61000-6-4, industrial sector	
Immunity to interference	EN 61000-6-4, industrial sector	
Protection class	III	
Insulation strength	EN 61131-2	
Protection type	IP20	
Vibration	Sinusoidal (EN 60068-2-6) test: Fc; 10 ... 150 Hz, 1 G (Operation Mode)	
Shock resistance	15 G (ca. 150 m/s <sup>2</sup> ), 10 ms duration, half-sine (EN 60068-2-27) test: Ea	

EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

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