



Introduction



AX140IP is an EtherCAT slave module with an isolated input to read incremental encoder; the encoder is supplied directly from the module. Four digital inputs are available to read proximity, switches, push-button etc. Diagnostic leds indicate EtherCAT connection status, digital input and encoder status.



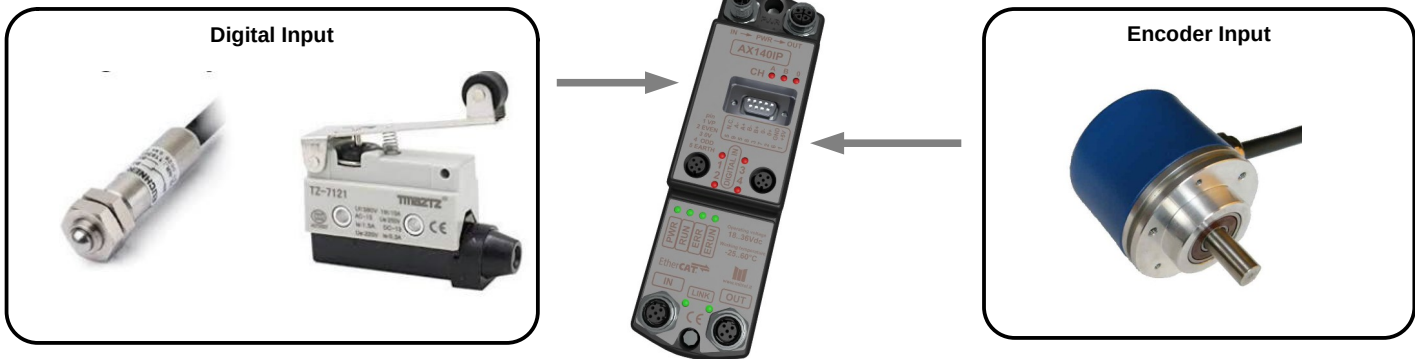
Hardware Specification

Digital Input	
Input channels	4
OFF voltage level	<5V
ON voltage level	>15V
Maximum input voltage	36V
Input filter	Typical 1ms
Input current	4mA / Channel @24Vdc
24Vs supply digital input	500mA max over current protection with thermal fuse
Encoder Input	
Encoder channels	1
Supply current for encoder	200mA max
Output protection of 5Venc	Shortcircuit and overload
Encoder type	Line driver, 5V differential
Maximum signal frequency	100KHz ±45deg / 150KHz ±22,5deg
Diagnostic leds	CHA ● CHB ● CH0 ●
Connection technology	DB9 female for encoder input
Electrical	
Supply voltage Vs/Vp	24 Vdc typ (range 18..36V) Vp not used
Electrical isolation	2500Vrms
Power consumption (Vs)	3W
Interface	EtherCAT slave
Specification	EN 61131-2
Diagnostic leds	Power ● Run ● Error ● EtherCAT run ● Link IN ● Link OUT ●



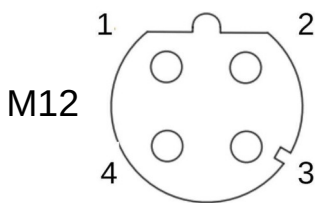
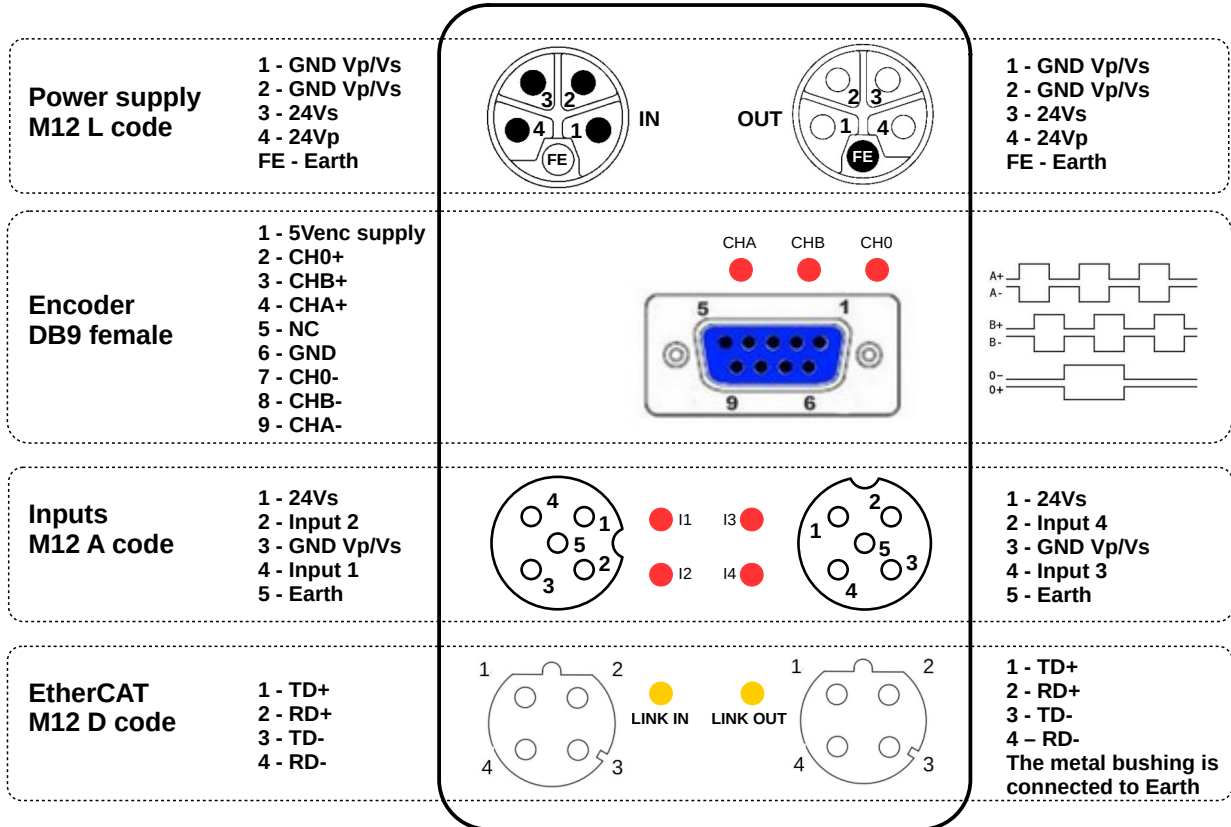
Mechanical	
Dimensions [W x H x D]	54x183x26mm without connectors
Installation	2 fixing holes 5mm for M4 (pitch 168mm) with metal pad to connect to Earth
Environment	
Operating/storage temperature	-20 to +60°C / -20 to +85°C
Relative humidity	Max 95% without condensation
Degree of protection	IP65

Application





Pin Assignments



- | | |
|-----------------------|-------|
| 1.TD+ ——— YE - yellow | 1.TX+ |
| 2.RD+ ——— WH - white | 3.RX+ |
| 3.TD- ——— OG - orange | 2.TX- |
| 4.RD- ——— BU - blue | 6.RX- |

