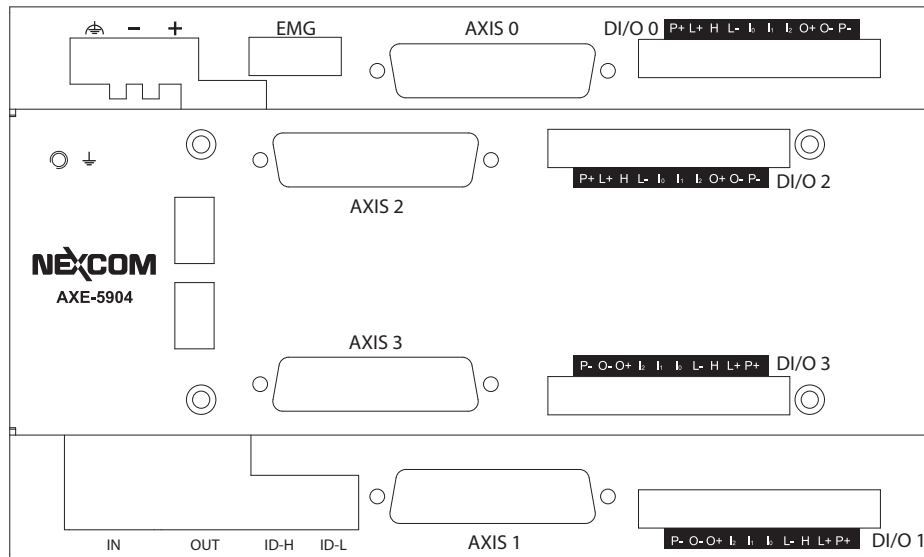


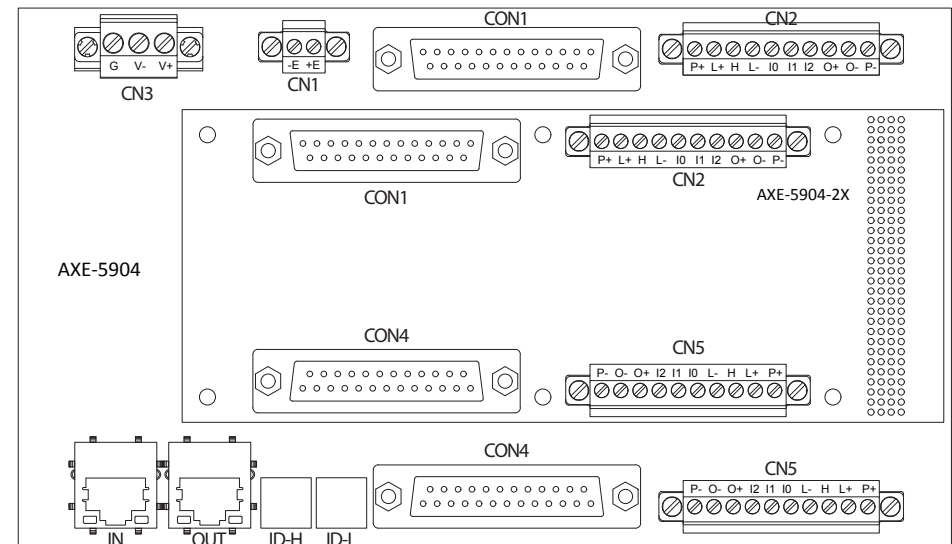
# AXE-5904 Quick Reference Guide

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## AXE-5904 Pin Definition Mapping Table



AXE-5904 with Metal Cover

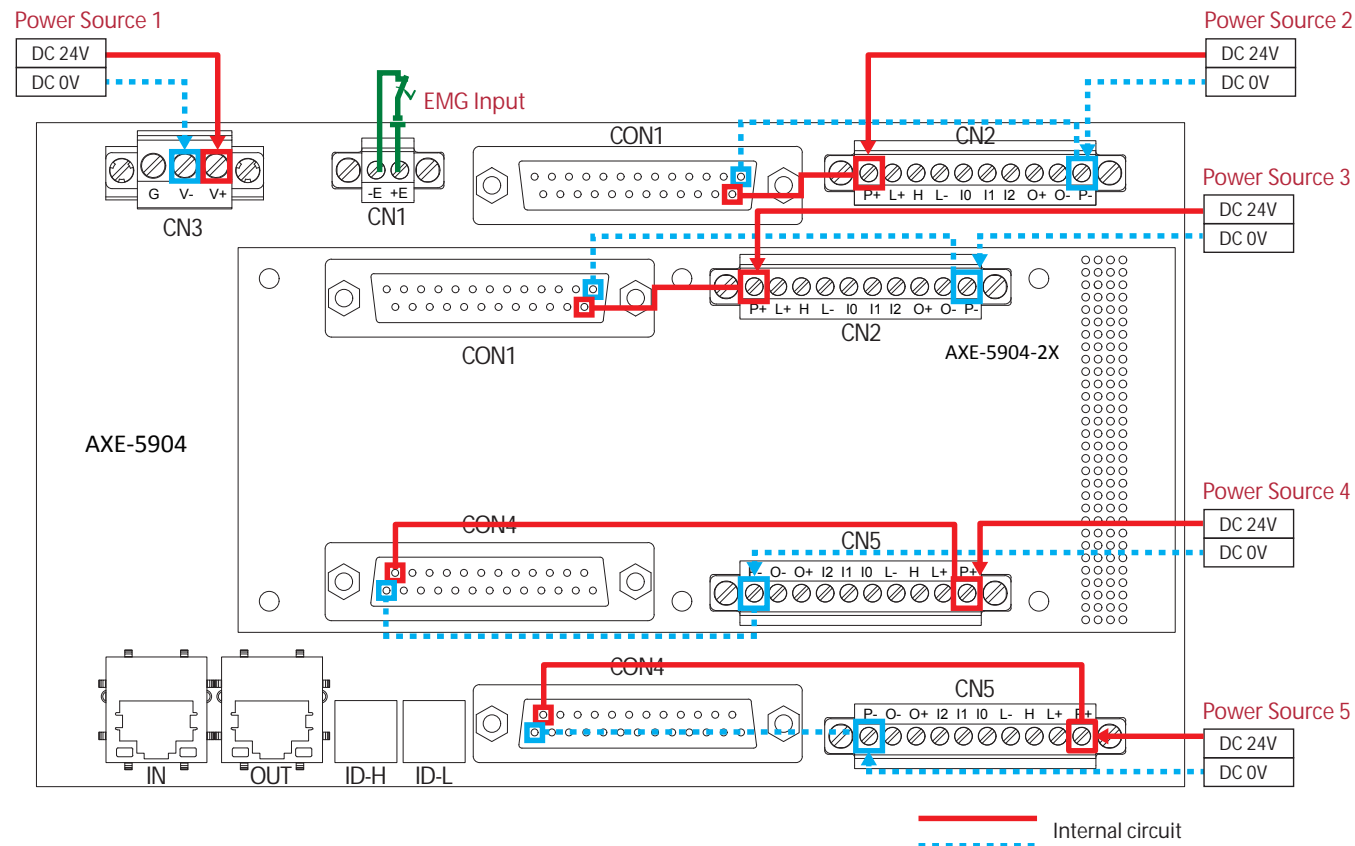


AXE-5904 without Metal Cover

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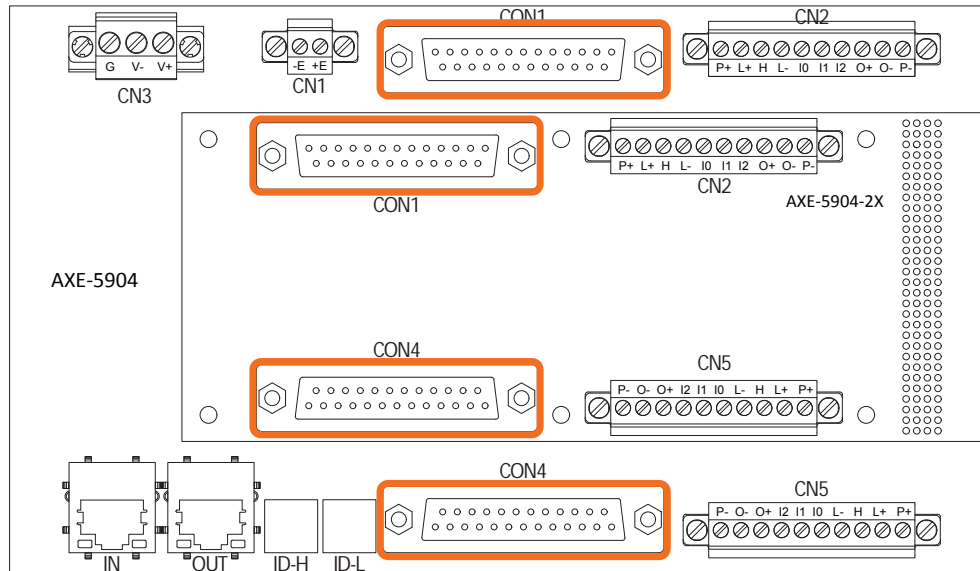
## AXE-5904 Power Wiring Diagram



# AXE-5904 Quick Reference Guide

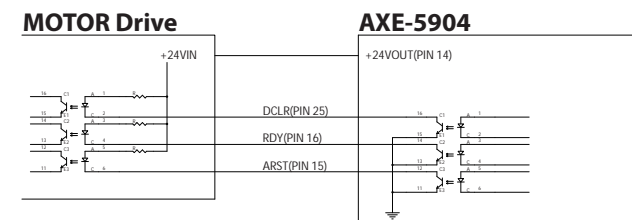
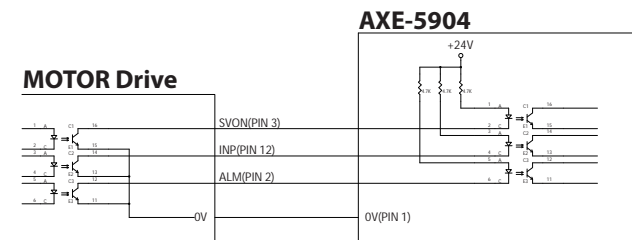
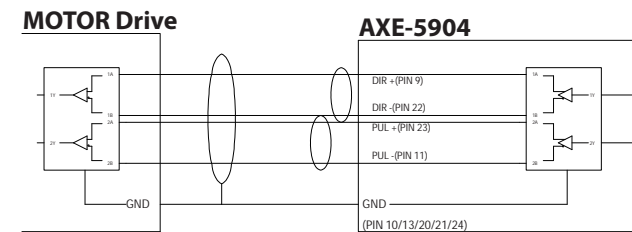
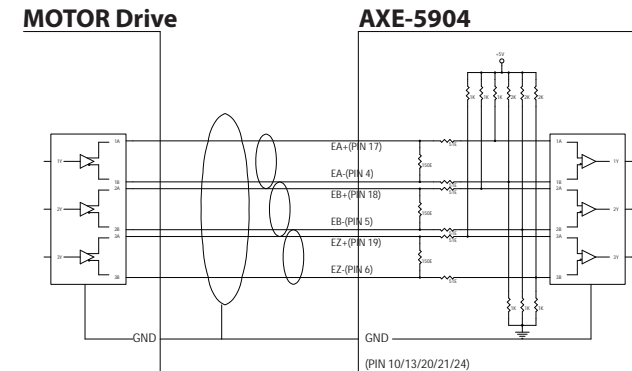
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## AXE-5904 Drive I/O connector Wiring Diagram



### CON1/CON4 (AXIS 0~3) Servo Control Connector

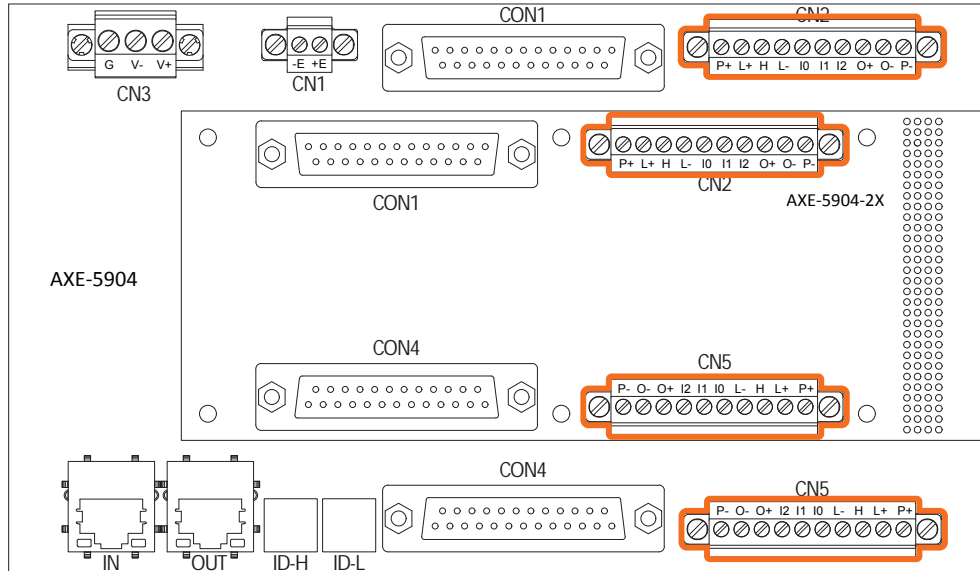
Pin	Symbol	Definition	Pin	Symbol	Definition
1	0V	Current return path for I/O (COM-)	2	ALM	Alarm input
3	SVON	Servo enable output	4	EA-	Differential encoder signal A, Negative
5	EB-	Differential encoder signal B, Negative	6	EZ-	Differential encoder signal Z, Negative
7	N/C	N/C	8	N/C	N/C
9	DIR+	Differential command signal DIR, Positive	10	DGND	Digital ground for differential signals
11	PUL-	Differential command signal PULSE, Negative	12	INP	In-position input
13	DGND	Digital ground for differential signals	14	+24V Output	Current source for I/O (COM+)
15	ARST	Alarm reset output	16	RDY	Servo ready input
17	EA+	Differential encoder signal A, Positive	18	EB+	Differential encoder signal B, Positive
19	EZ+	Differential encoder signal Z, Positive	20	DGND	Digital ground for differential signals
21	DGND	Digital ground for differential signals	22	DIR-	Differential command signal DIR, Negative
23	PUL+	Differential command signal PULSE, Positive	24	DGND	Digital ground for differential signals
25	DCLR	Deviation counter clear output			



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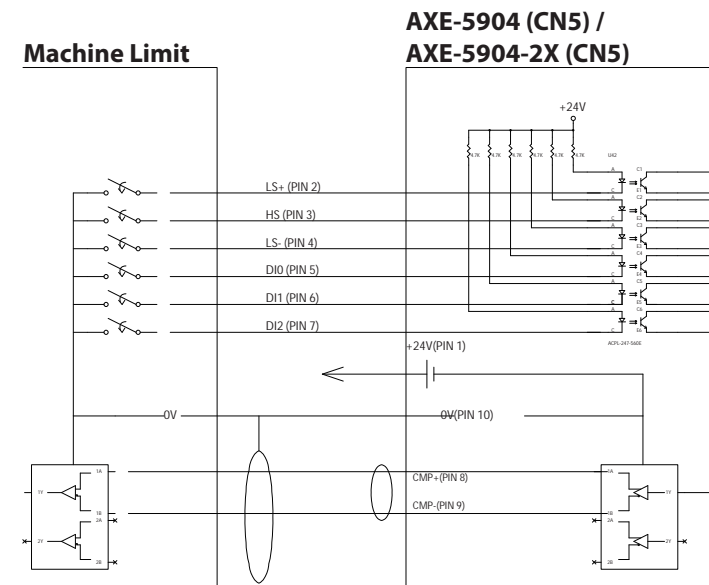
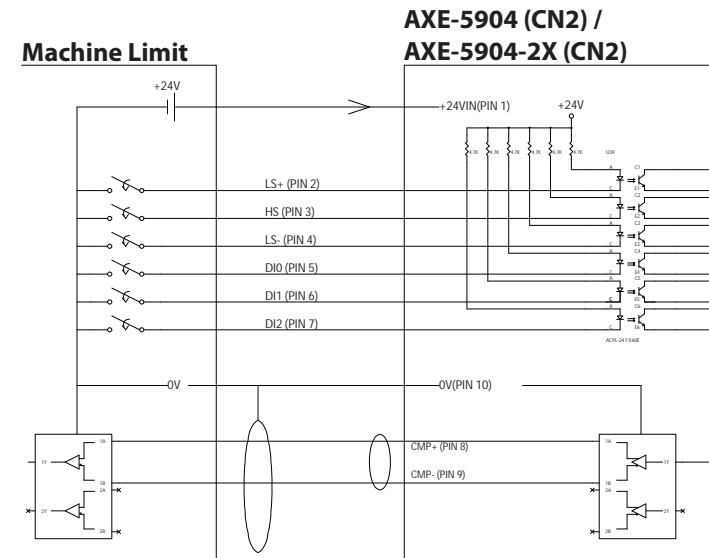
## DI/O 0~ DI/O 4 Wiring Diagram



### CN2/CN5 (DI/O 0~3) Safety DI/O Connector

Pin	Symbol	Label	Definition
1	+24V Input	P+	Positive potential of Isolated Power (COM+)
2	LS+	L+	Forward Limit sensor input
3	HS	H	Home sensor input
4	LS-	L-	Reverse Limit sensor input
5	DI0	I0	Uncommitted digital input 0
6	DI1	I1	Uncommitted digital input 1
7	DI2	I2	Uncommitted digital input 2
8	CMP+	O+	Compare Trigger Output (CMP+)
9	CMP-	O-	Compare Trigger Output (CMP-)
10	0V	P-	Negative potential of Isolated Power (COM-)

Warning: Pin 8 and Pin 9 cannot connect with 24V.



# AXE-5904 Quick Reference Guide

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## CN3: Power Input Connector

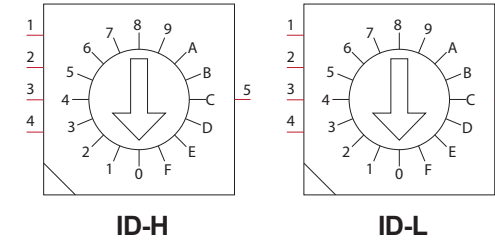
Pin	Symbol	Label	Definition
1	+24V Input	V+	Positive supply voltage for the module (+24V Input)
2	0V	V-	Positive supply voltage for the module
3	GND	G	Earth ground

## CN1: (EMG) Emergency Input Connector

Pin	Symbol	Label	Definition
1	EMG+	E+	Emergency Stop Input +
2	EMG-	E-	Emergency Stop Input -

## AXE-5904 SH & SL ROTARY (EtherCAT Station Address Alias)

ROTARY SWITCH 16 POSITIONS 180 degrees for EtherCAT Low Word Address Adjustment



The EtherCAT Station Address alias is used to identify the physical location of the slave on the EtherCAT bus.

Two way you can read the switches value:

1. EtherCAT Station Address Alias in EtherCAT Slave Controller register (0x0012)

EtherCAT Station Address Alias			
4 <sup>th</sup> Byte	3 <sup>rd</sup> Byte	2 <sup>nd</sup> Byte	1 <sup>st</sup> Byte
0	0	SH (ID-H)	SL (ID-L)

P.S. In Hexadecimals, Note: Station alias register (0x0012) is set from the switches once when system power on.

2. CoE object index: 0x2005, read the switch value directly by this object.

Application example:

If slave(station) cabling order is changed, you could read the switch value(station address alias) from each EC-slave.

And compare the value to know your physical configuration on the network topology.