

Compumotor ACR8020
Motion Controller



**Limited Availability
Used and in Excellent Condition**

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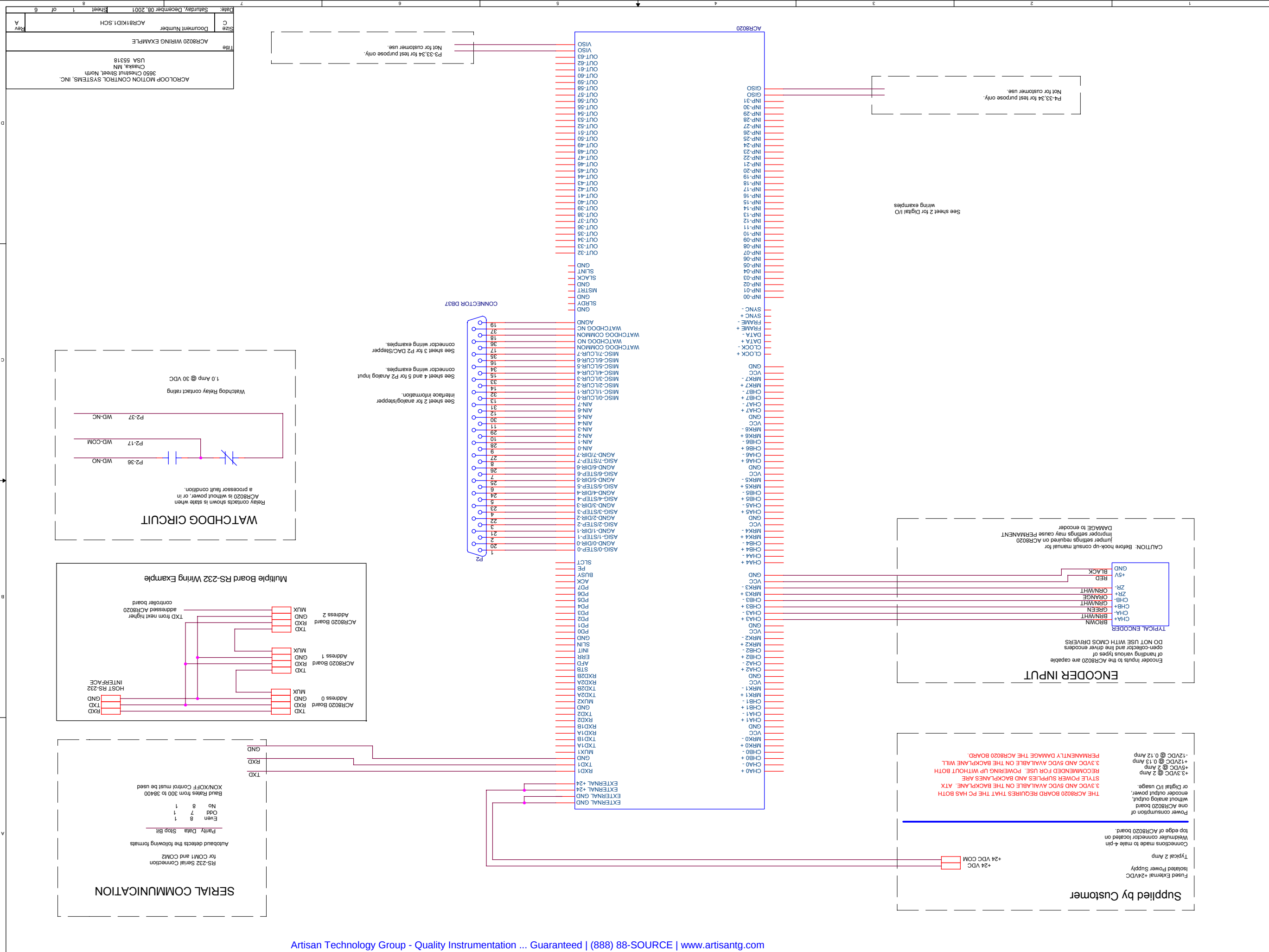
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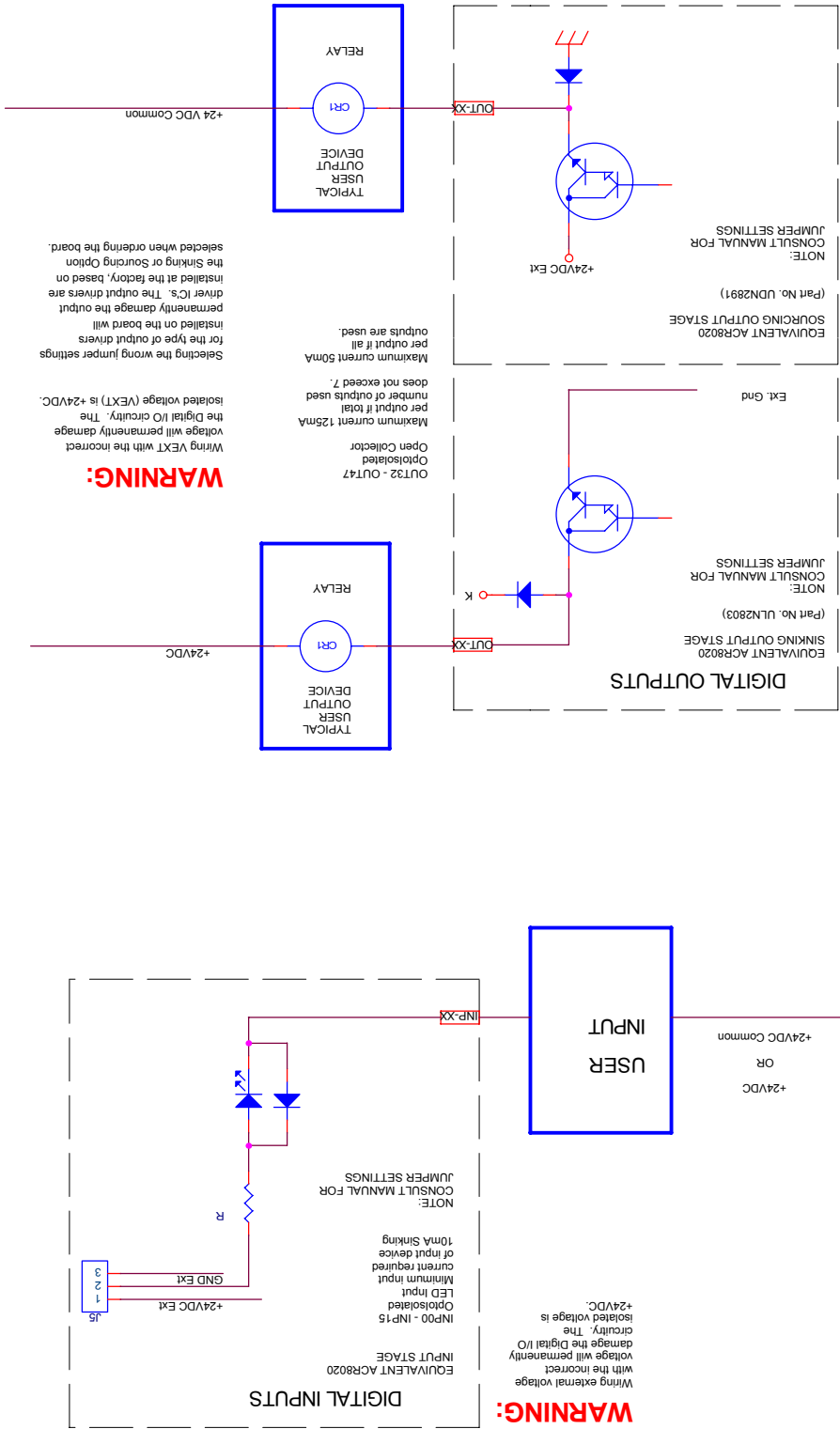
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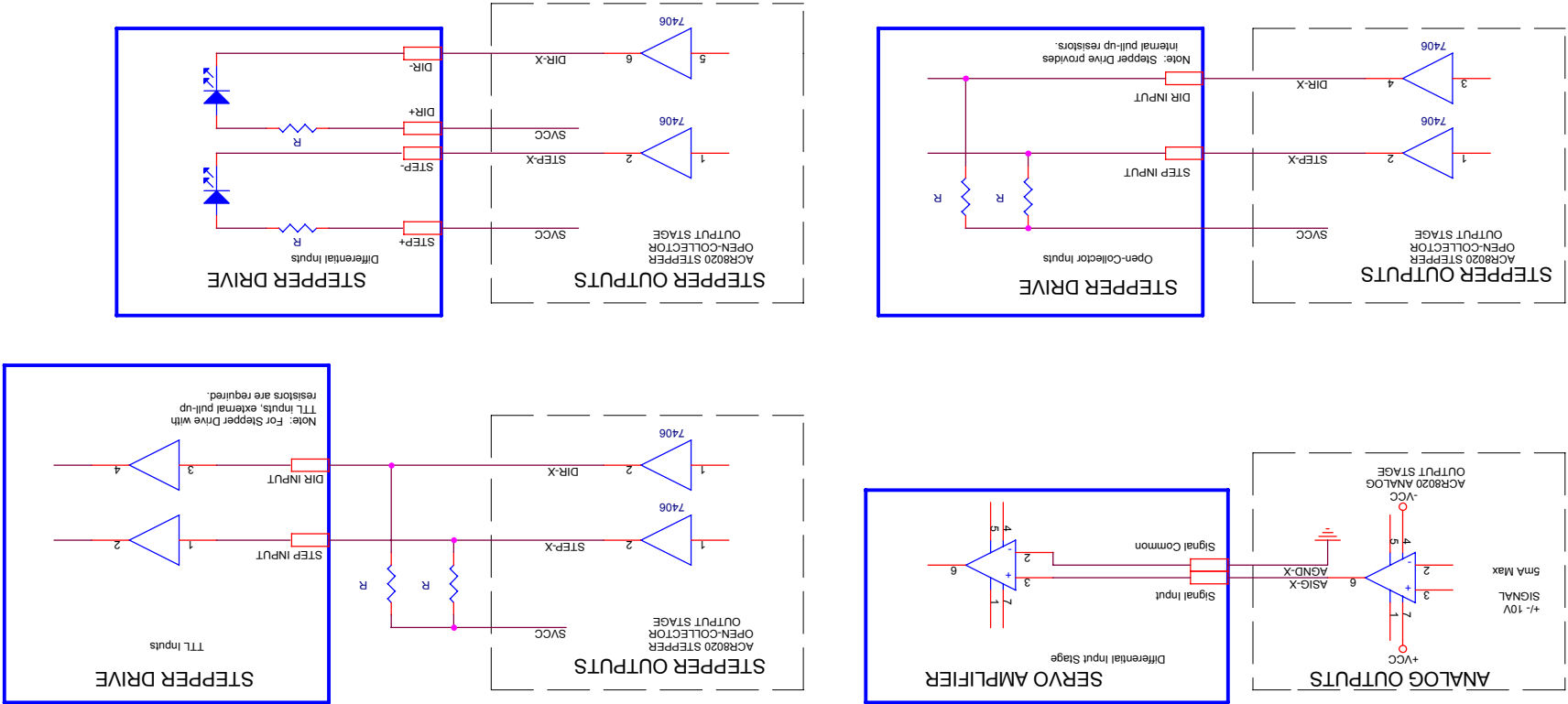
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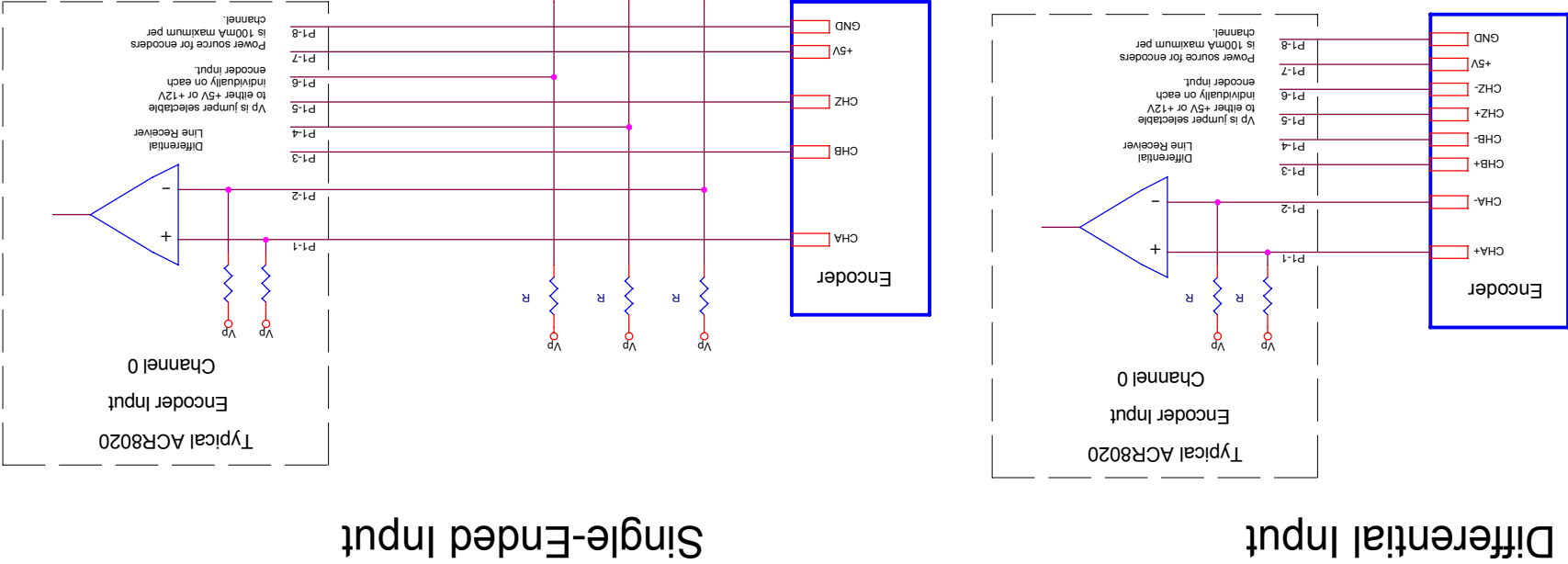
Digital I/O Wiring



Analogue/Stepper Wiring



Encoder Wiring



Title		
ACR8020 WIRING EXAMPLE		
Size	Document Number	Rev
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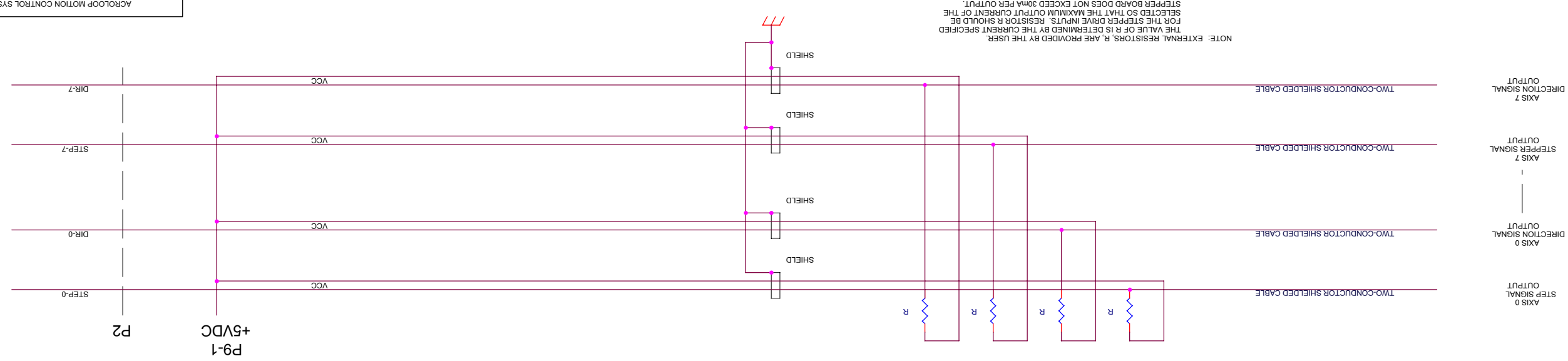
Title	
ACROLOOP MOTION CONTROL SYSTEMS INC. 3650 Chestnut Street, North Chaska, MN USA 55318	
Size C	Document Number ACR81KID3 SCH
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STEPPER P2 CONNECTOR DIFFERENTIAL OUTPUT WIRING EXAMPLE (OPEN-COLLECTOR OUTPUTS PULLED-UP THRU STEPPER DRIVE INPUTS)



STEPPER P2 CONNECTOR SINGLE-ENDED OUTPUT WIRING EXAMPLE (OPEN-COLLECTOR OUTPUTS PULLED-UP TO +5V THRU EXTERNAL RESISTORS)



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ANALOG P2 CONNECTOR INPUT WIRING
DIFFERENTIAL WIRING EXAMPLE

ANALOG TO DIGITAL INPUTS (ADC)

ANALOG TO DIGITAL INPUTS (AIN0 - AIN7) CAN BE USED AS DIFFERENTIAL OR SINGLE-ENDED INPUTS. ANY COMBINATION MAY BE USED.

IF USED AS DIFFERENTIAL INPUTS, TWO INPUTS ARE USED AS SHOWN USING AIN0-AIN1 & AIN2-AIN3. FOUR DIFFERENTIAL INPUT SIGNALS MAY BE USED WITH AN ACR8020.

IF USED AS SINGLE-ENDED INPUTS, ONE INPUT IS USED IN CONJUNCTION WITH AIN-COM. EIGHT SINGLE-ENDED SIGNALS MAY BE USED WITH AN ACR8020.

SEE SHEET 4 FOR SINGLE ENDED WIRING EXAMPLE.

DIFFERENTIAL INPUT PAIRS

+

-

AIN0 - AIN1

AIN2 - AIN3

AIN4 - AIN5

AIN6 - AIN7



WATCHDOG CONTACTS USED TO DISABLE SERVO DRIVE
UNTIL ACR8020 CONTROLLER HAS FULL CONTROL
OF ALL DIGITAL AND ANALOG SIGNALS TO PREVENT
POSSIBLE MOTOR SURGE ON INITIAL START-UP

WATCHDOG CIRCUIT

TO SERVO DRIVE
SAFETY INTERLOCK
CIRCUIT

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ANALOG P2 CONNECTOR INPUT WIRING

SINGLE-ENDED WIRING EXAMPLE

The diagram illustrates the wiring for an Analog P2 Connector Input. It shows eight channels, each consisting of a two-conductor shielded cable connected to a single-ended analog signal. The signals are labeled FROM SINGLE-ENDED ANALOG SIGNAL #1 through #8. Each cable is grounded at the connector end.

Connections to the P2 connector:

- AIN0
- AIN1
- AIN2
- AIN3
- AIN4
- AIN5
- AIN6
- AIN7
- AIN.COM
- WATCHDOG COMMON
- WATCHDOG NO

WATCHDOG CIRCUIT

TO SERVO DRIVE SAFETY INTERLOCK CIRCUIT

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ACR8020 WIRING EXAMPLE

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ANALOG P2 CONNECTOR INPUT WIRING

SINGLE-ENDED WIRING EXAMPLE

FROM SINGLE-ENDED ANALOG SIGNAL #1

FROM SINGLE-ENDED ANALOG SIGNAL #2

FROM SINGLE-ENDED ANALOG SIGNAL #3

FROM SINGLE-ENDED ANALOG SIGNAL #4

FROM SINGLE-ENDED ANALOG SIGNAL #5

FROM SINGLE-ENDED ANALOG SIGNAL #6

FROM SINGLE-ENDED ANALOG SIGNAL #7

FROM SINGLE-ENDED ANALOG SIGNAL #8

TWO-CONDUCTOR SHIELDED CABLE

SHIELD

AIN0

AIN1

AIN2

AIN3

AIN4

AIN5

AIN6

AIN7

AIN.COM

WATCHDOG COMMON

WATCHDOG NO

WATCHDOG CIRCUIT

TO SERVO DRIVE SAFETY INTERLOCK CIRCUIT

WATCHDOG CONTACTS USED TO DISABLE SERVO DRIVE UNTIL ACR8020 CONTROLLER HAS FULL CONTROL OF ALL DIGITAL AND ANALOG SIGNALS TO PREVENT POSSIBLE MOTOR SURGE ON INITIAL START-UP

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