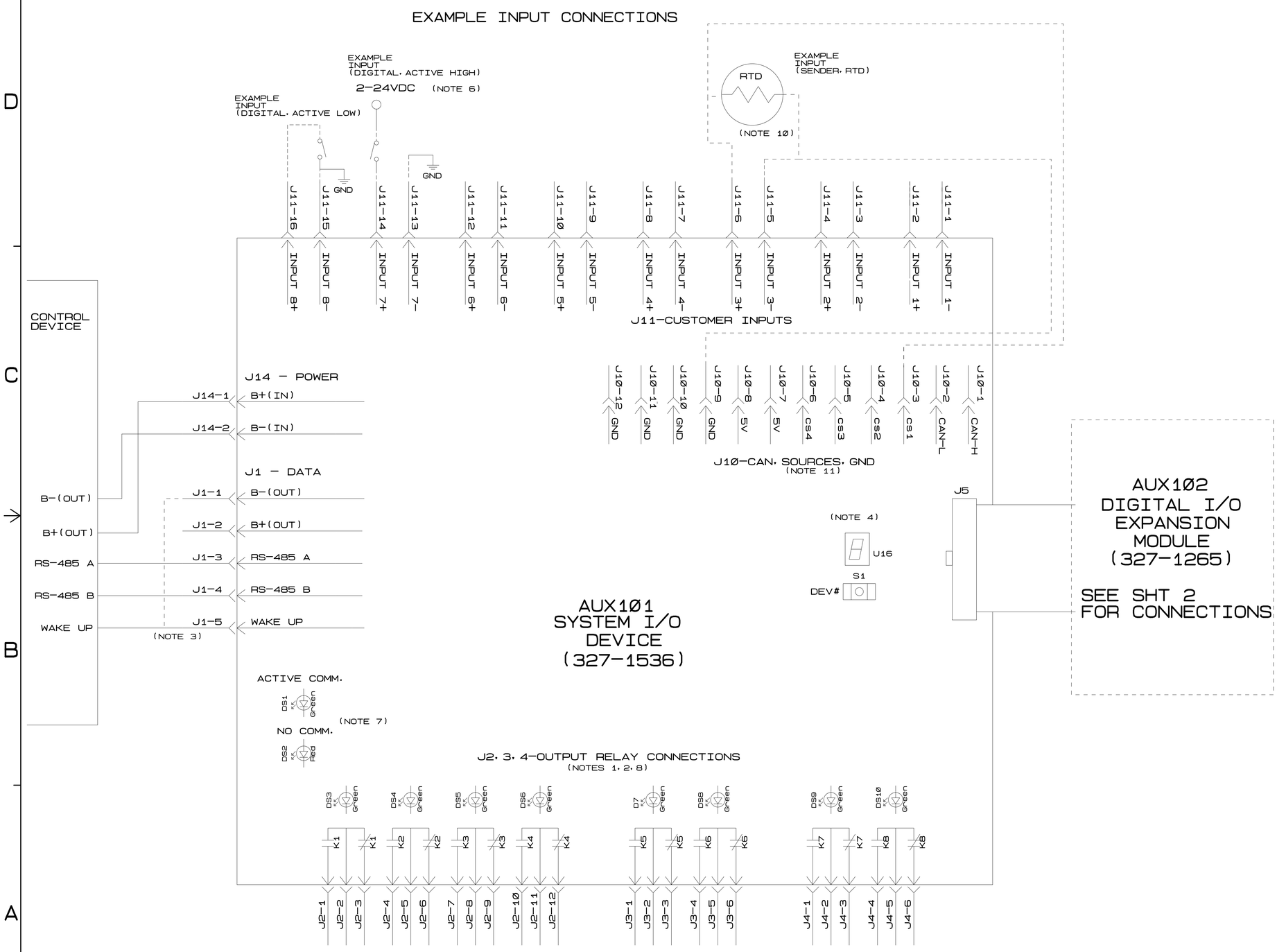
0630-3142 D

REL NO	LTR	NO.	REVISION	ZONE	DR	CHKR	APPROVED	DATE
FRD25376	A	1	PRODUCTION RELEASE	-	TAW	JFM	TAW	07-25-05
ECO-107041	B	1	SPEC 3.3 MAX VOLTAGE WAS 24V	-	MRD	MS	SCHEUERELL	050CT09
		2	SPEC 3.3 DIFF VOLT INPUT 1.2 WAS -5-5V	-	MRD	MS	SCHEUERELL	050CT09



SPECIFICATIONS

1. POWER
   - 1.1 INPUT VOLTAGE = 5-40VDC (OPERATING RANGE) 12VDC = 900mA, 24VDC = 450mA
   - 1.2 INPUT CONNECTIONS = J14-1(+) J14-2(-)
   - 1.3 OUTPUT CONNECTIONS = J1-2(+) J1-1(-)
2. DATA
   - 2.1 TYPE RS-485
   - 2.1.1 CONNECTIONS = J1-3(A) J1-4(B)
   - 2.2 CAN
   - 2.2.1 CONNECTIONS = J10-1(CAN-H) J10-2(CAN-L)
   - 2.3 WAKE UP(ACT. LOW) = J1-5(WU)
3. CUSTOMER INPUTS
   - 3.1 TYPE = DISCRETE OR ANALOG
   - 3.2 NUMBER = 8 : 12 WITH EXPANSION BOARD, AUX102
   - 3.3 MAX. VOLTAGE ALLOWED AT ANY INPUT: -10-24VDC (1-6) 40VDC (7-8)
     DIFFERENTIAL VOLTAGE RANGE: -4.9V-5V(Inputs 1,2) 0V-5V(Inputs 3-6) 0V-38V(INPUTS 7,8)
   - 3.4 INPUT CONNECTIONS = J11
4. CUSTOMER OUTPUTS
   - 4.1 CURRENT SOURCES = J10-3,4,5,6 (1mA - 20mA)
   - 4.2 VOLTAGE SOURCES = J10-7,8 (5VDC, 20mA)
   - 4.3 GROUND = J10-9,10,11,12
5. OUTPUT RELAYS
   - 5.1 TYPE = NON-LATCHING
   - 5.2 NUMBER = 8 : 16 WITH EXPANSION BOARD
   - 5.3 CONTACTS = 1 FORM C
     250VAC OR 30VDC
     NC CONTACTS = 3A(AUX101)
     NO CONTACTS = 5A(AUX101)
     AUX102 CONTACTS = 2A(AUX102)
   - 5.4 CONNECTIONS = J2, J3, J4(AUX101) J1, J2, J3(AUX102)
6. ENVIRONMENTAL
   - 6.1 STORAGE TEMPERATURE = -40 TO 85 °C
   - 6.2 OPERATING TEMPERATURE = -40 TO 60 °C
   - 6.3 HUMIDITY = UP TO 95% RH

NOTES

1. ALL RELAYS SHOWN IN RESET OR DE-ENERGIZED POSITION. DO NOT MAINTAIN THE LAST STATE WHEN POWER IS LOST.
2. OUTPUT RELAYS ARE CONTROLLED VIA THE NETWORK.
3. TIE J1-1 and J1-5 TO HOLD DEVICE IN WAKE UP STATE.
4. DISPLAYS THE DEVICE NUMBER. IF MORE THAN ONE AUX101 IS ON NETWORK BOTH NEED A UNIQUE DEVICE NUMBER.
5. CONNECT J2 RING TERMINAL TO A GOOD EARTH GROUND. USE AN 'EXTERNAL TOOTH' LOCKWASHER BETWEEN RING AND GROUNDING SURFACE.
6. DIGITAL INPUTS NEED THE (-) INPUT GROUNDED.
7. DS1 INDICATES ACTIVE NETWORK COMMUNICATION. DS2 INDICATES NO NETWORK CONNECTIVITY.
8. DS3-DS10(GREEN) ON THE AUX101 INDICATE WHICH RELAYS ARE ENERGIZED. DS1-DS8(GREEN) ON THE AUX102 INDICATE WHICH RELAYS ARE ENERGIZED.
9. AUX102 INPUTS ARE ONLY DIGITAL ACTIVE LOW
10. RTD SENDERS CAN ONLY BE USED ON INPUTS 3-6
11. PROGRAMMABLE CURRENT SOURCE USE
    - CS1 IS USED FOR INPUT 3 ONLY.
    - CS2 IS USED FOR INPUT 4 ONLY.
    - CS3 IS USED FOR INPUT 5 ONLY.
    - CS4 IS USED FOR INPUT 6 ONLY.

ITEM	PART NO.	DWG SIZE	DESCRIPTION OR MATERIAL	REF DES	QTY

TOLERANCES UNLESS OTHERWISE SPECIFIED
mm: X. ±.1; .X ±.05; .XX ±.02
Inch: .X ±.1; .XX ±.05; .XXX ±.010
HOLE: 0.89-4.99 +0.15/-0.00; 5.00-9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13
.004-.020 +.005/-.003; .021-.421 +.008/-.004; .422-.703 +.010/-.005; .704-.999 +.012/-.005

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ZUKEN | DO NOT SCALE PRINT | ANG TOL ± | DRAWN TO SCALE OF

	NAME	DATE
DR	TROY WINSAND	7-20-05
CHKR ☒ MFG ☐	JOHN MCCARTHY	10-4-05
APPROVED	TROY WINSAND	7-20-05

FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES SEE ANSI Y14.5M-1982

MODEL FIRST USED ON: SID

SITE CODE: PGA

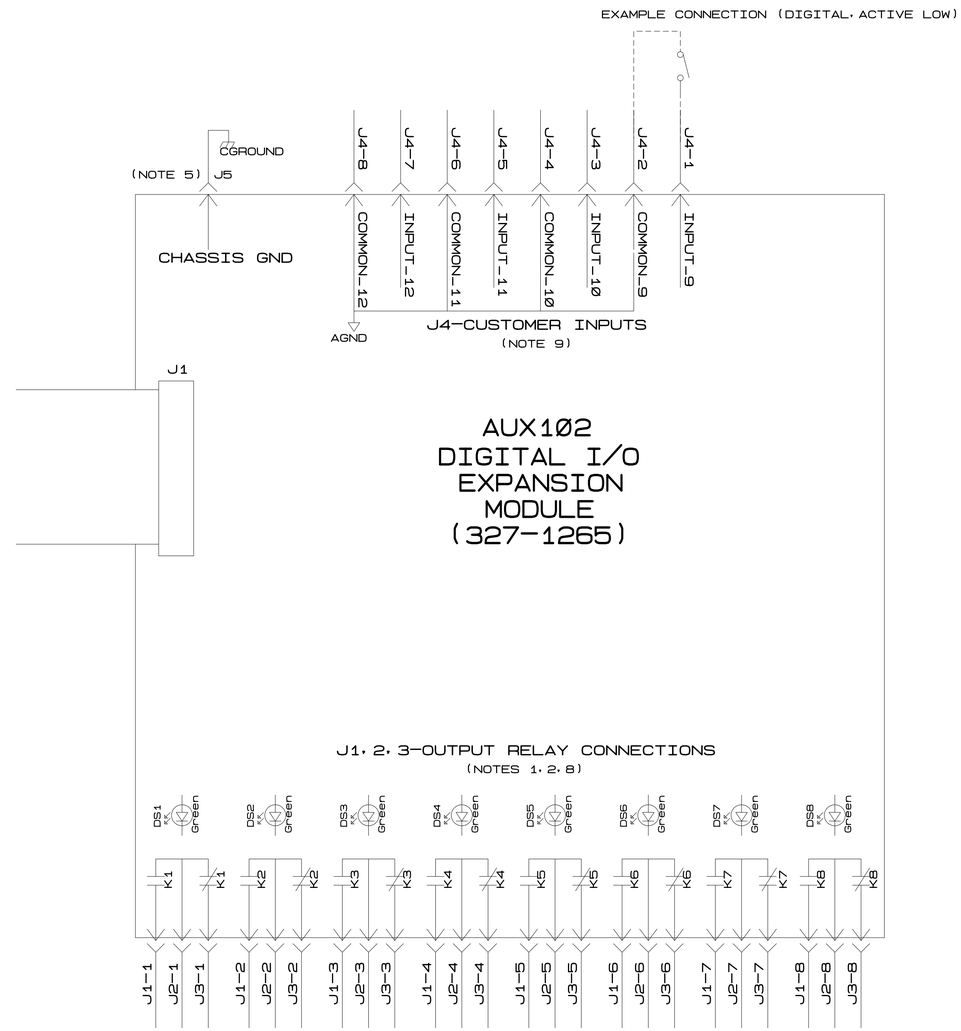
CUMMINS POWER GENERATION
1400 73rd AVE NE
MINNEAPOLIS MN 55432

TITLE: WD-CONTROL (SYSTEM I/O DEVICE)

DWG NO. 0630-3142 | SHEET 1 of 2 | DWG SIZE D

0630-3142 D

REL NO	LTR	NO.	REVISION	ZONE	DR	CHKR	APPROVED	DATE
FRD25376	A	1	PRODUCTION RELEASE	–	TAW	JFM	TAW	07-25-05
ECO-107041	B	–	----------	–	MRD	MS	SCHEUERELL	05OCT09



QTY	ITEM	PART NO.	DWG SIZE	DESCRIPTION OR MATERIAL	REF DES

TOLERANCES UNLESS OTHERWISE SPECIFIED

	mm	Inch
DIM	X. ± .X ± .XX ±	.X ± .XX ± .XX .XXX ± .XXX
HOLE	0.09-4.99 +0.15/-0.09 5.00-9.99 +0.20/-0.10 10.00-17.49 +0.25/-0.13 17.50-24.99 +0.30/-0.13	.004-.202 +.006/-.003 .201-.421 +.008/-.004 .422-.703 +.010/-.005 .704-.999 +.012/-.005

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MODEL FIRST USED ON SID

SITE CODE PGA

CUMMINS POWER GENERATION
1400 73rd AVE NE
MINNEAPOLIS, MN 55432

TITLE WD-CONTROL (SYSTEM I/O DEVICE)

DWG NO. 0630-3142 | SHEET 2 OF 2 | DWG SIZE D

Part A007M119 B

Description	Legacy Name	External Regulations	Application Status	Release Phase Code	Security Classification	Alternates
DIAGRAM,WIRING	0630-3142	None	Production & Service	Production	Proprietary	

Part Specifications :A007M119 B

Name	Description	Legacy Name
A015A352	MODEL,ENGINEERING	0630-3142
A014L492	DRAWING,WIRING SCHEMATIC	0630-3142