ITEM	PART NUMBER	DESCRIPTION	QTY	MANUFACTURER
1	231-001	AFDAU-T1 DATA ACQUISITION UNIT	1	AMS
2	M24308/2-4F	CONNECTOR, D-SUB, 37 PIN, FEMALE	1	AMP
3	970-037-010R011	BACKSHELL, D-SUB, 37 PIN	1	NORCOMP

DRAFT

1. UNLESS SPECIFICALLY NOTED ON THIS DRAWING, WIRE TYPE AND GAUGE IS TO BE SELECTED IN ACCORDANCE WITH THE AIRCRAFT PUBLICATIONS (I.E. WIRING OR MAINTENANCE MANUAL) OR FAA AC 43.13-1B CHANGE 1 PARAGRAPH 11-76 THROUGH 11-78.

2. UNLESS OTHERWISE NOTED ALL POWER AND GROUND LINES ARE TO BE 20AWG. ALL OTHER WIRING IS TO BE 22AWG. IF IN DOUBT, SELECT A GAUGE BASED ON THE INLINE CIRCUIT BREAKER RATING IN ACCORDANCE WITH FAA AC43.13-1B CHANGE 1 SECTION 11.

3. UNSHIELDED WIRE TYPES ARE TO BE QUALIFIED TO MIL-W-22759 PER FAA AC 43.13-1B CHANGE 1 PARAGRAPH 11-85, 11-86 AND TABLE 11-11.

4. WHERE A SHIELDED WIRE TYPE IS INDICATED, USE MIL-DTL-27500 SHIELDED WIRE WITH SOLDER SLEEVES FOR SHIELD TERMINATIONS. ALLOW 75MM (3") FROM THE END OF THE SHIELDED WIRE TO THE SHIELD TERMINATION TO FACILITATE CLAMSHELL HOOD INSTALLATION AFTER WIRING IS COMPLETE.

5. WIRING LOOMS ARE TO BE SUPPORTED AT INTERVALS NO GREATER THAN 600MM (24"). ADHERE TO CLAMPING AND SEPARATION REQUIREMENTS OF AIRCRAFT PUBLICATIONS OR FAA AC 43.13-1B CHANGE 1 PARAGRAPH 11-146. ROUTE WIRES IN ACCORDANCE WITH AIRCRAFT PUBLICATIONS.

△6. LOCATE CIRCUIT BREAKER AS CLOSE AS POSSIBLE TO THE BUS.

△7. RELAY DIODE INSTALLED INTERNALLY. NO NEED FOR FURTHER DIODE ISOLATION.

△8. WHEN INSTALLING THE AFDAU-T1, THE ROCKAIR 6-PIN CONNECTOR SHOULD NOT BE WIRED UP. IF EXISTING, DISCONNECT THE 6-PIN CONNECTOR AT THE BACK OF THE ROCKAIR AND REMOVE OR CAP AND STOW WIRING.

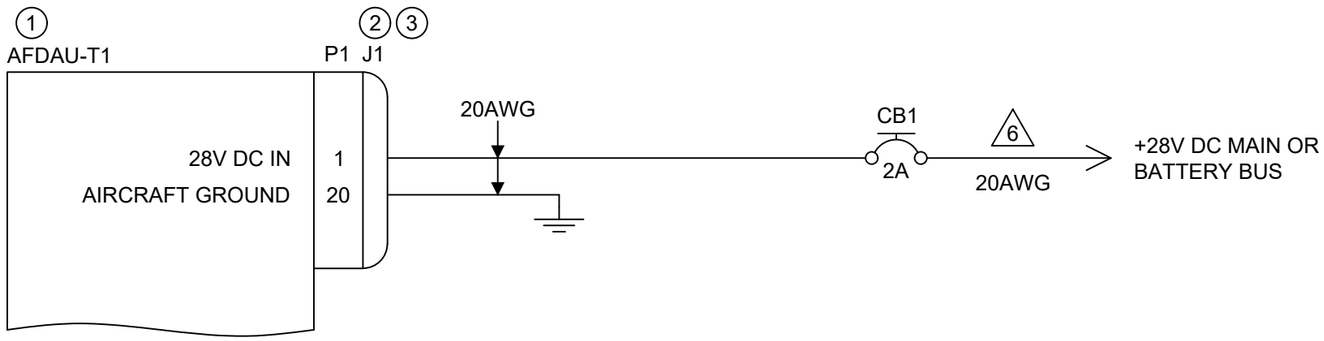
NEW WIRE
EXISTING WIRE
REMOVED WIRE

DRAWN	CHECKED	APPROVED	DATE	SIZE	SCALE
L. Vohland	Z. Vohland	-	14-JULY-2020	A3	1:1

AIRBORNE MISSION SYSTEMS PTY LTD
HANGAR 480, 16 MILES STREET
BANKSTOWN AERODROME 2200 NSW

AFDAU-T1

231-001-WD	REV. DRAFT	SHEET 1 of 7



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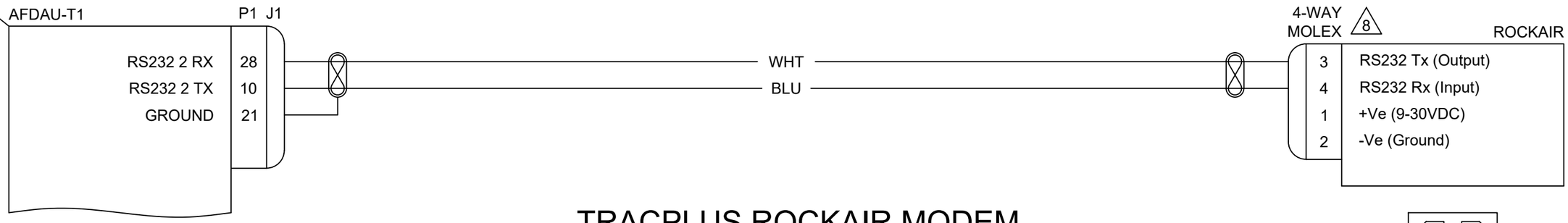
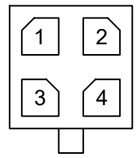
POWER WIRING

AIRBORNE MISSION SYSTEMS PTY LTD HANGAR 480, 16 MILES STREET BANKSTOWN AERODROME 2200 NSW	AFDAU-T1		
	231-001-WD	REV. DRAFT	SHEET 2 of 7

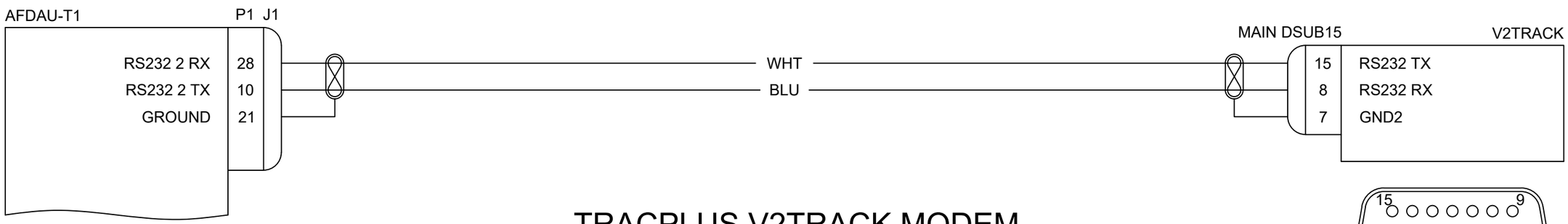


TRACPLUS ROCKAIR MODEM



4-WAY MOLEX SOCKET
(VIEW LKG AT SOCKET ON DEVICE)

DRAFT

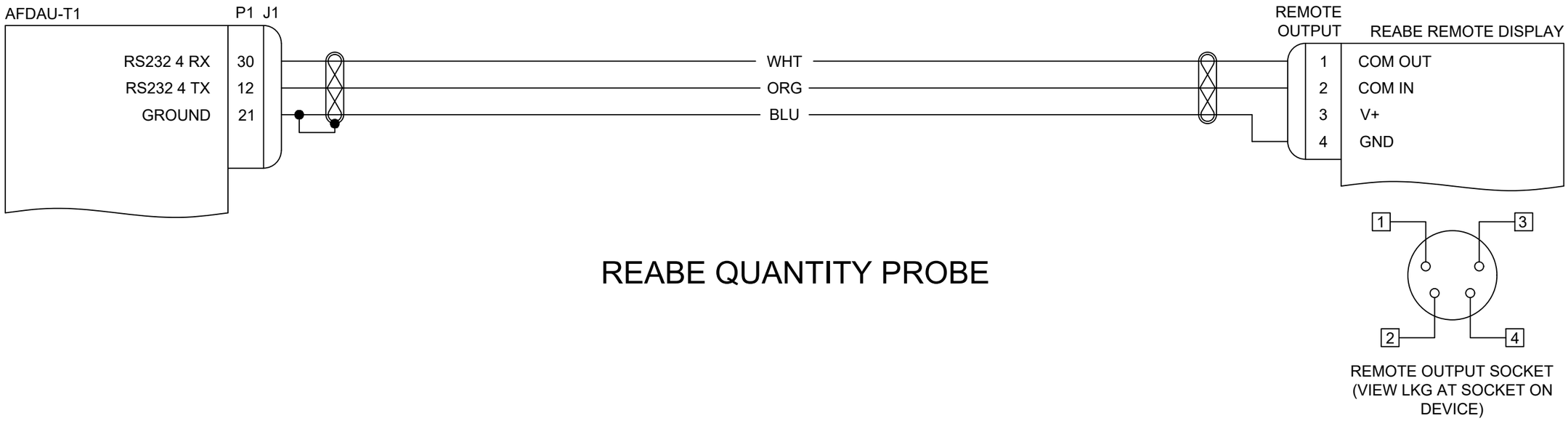


TRACPLUS V2TRACK MODEM

DSUB 15 MALE SOCKET
(VIEW LKG AT SOCKET ON DEVICE)

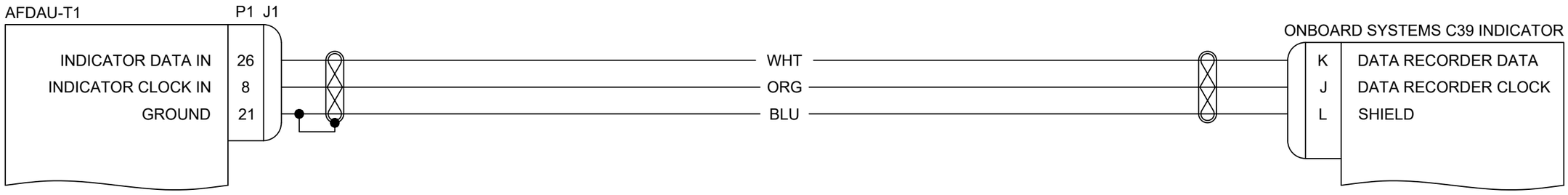
MODEM OPTIONS

AIRBORNE MISSION SYSTEMS PTY LTD HANGAR 480, 16 MILES STREET BANKSTOWN AERODROME 2200 NSW	AFDAU-T1		
	231-001-WD	REV. DRAFT	SHEET 3 of 7

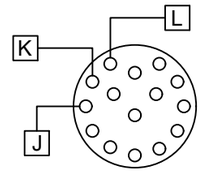


REABE QUANTITY PROBE

REMOTE OUTPUT SOCKET
(VIEW LKG AT SOCKET ON DEVICE)



ONBOARD SYSTEMS LOAD CELL W/
C39 INDICATOR



C39 CONNECTOR
(VIEW LKG AT PLUG ON DEVICE)

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VOLUME SENSOR OPTIONS WIRING

AIRBORNE MISSION SYSTEMS PTY LTD
HANGAR 480, 16 MILES STREET
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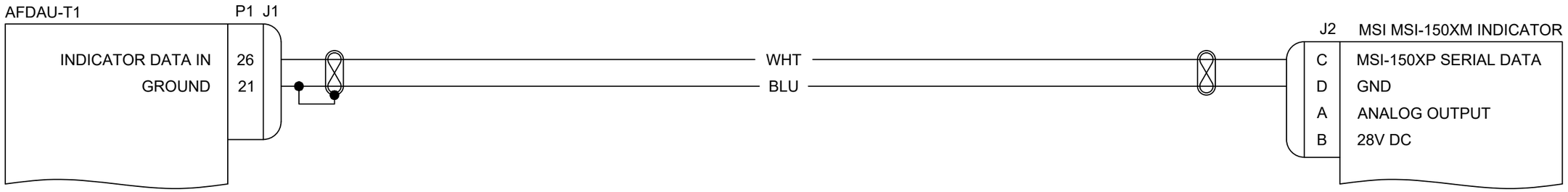
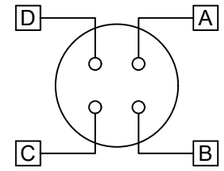
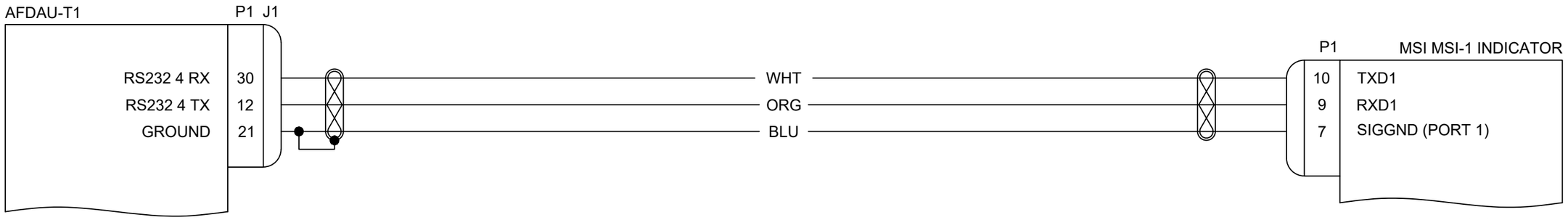


MSI LOAD CELL W/ MSI-150XM INDICATOR

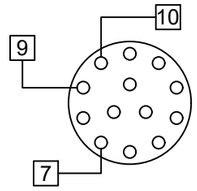


MSI-150XM J2 CONNECTOR
(VIEW LKG AT BACK OF INDICATOR)



MSI LOAD CELL W/ MSI-1 INDICATOR

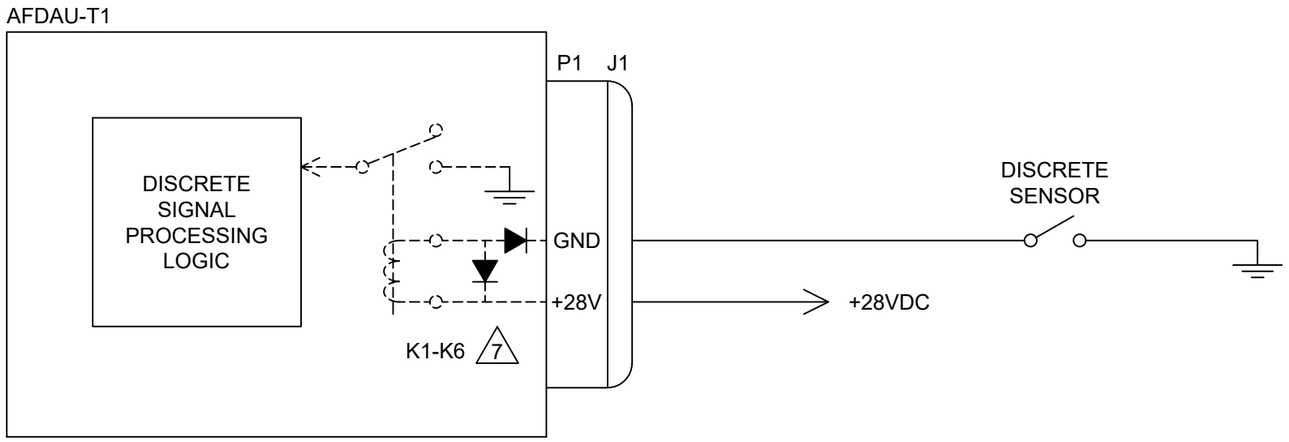
DRAFT



REMOTE OUTPUT SOCKET
(VIEW LKG AT SOCKET ON DEVICE)

VOLUME SENSOR OPTIONS WIRING

AIRBORNE MISSION SYSTEMS	AIRBORNE MISSION SYSTEMS PTY LTD HANGAR 480, 16 MILES STREET BANKSTOWN AERODROME 2200 NSW	AFDAU-T1	
		231-001-WD	REV. DRAFT / SHEET 5 of 7



EXAMPLE: GROUND SWITCHED RELAY

TABLE 1 - RELAY INPUTS

RELAY	+28V	GND	RECOMMENDED CONFIG
K1	32	14	BUCKET OPEN
K2	33	15	ENGINE ON
K3	34	16	AIRBORNE
K4	35	17	ADDITIVE PUMP ON
K5	36	18	-
K6	37	19	-

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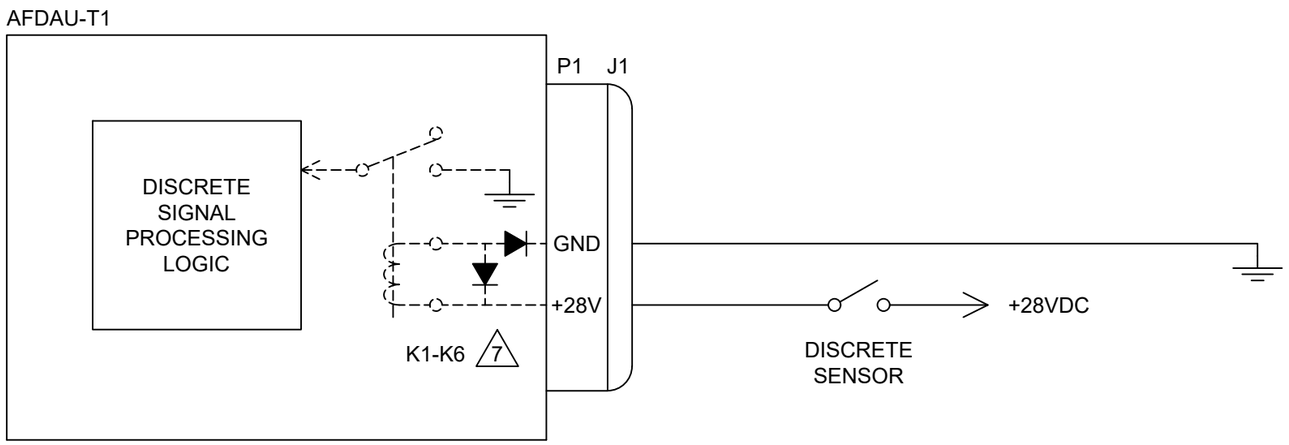

EXAMPLE: POWER SWITCHED RELAY

DISCRETE INPUT WIRING: RELAY INPUTS

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HANGAR 480, 16 MILES STREET
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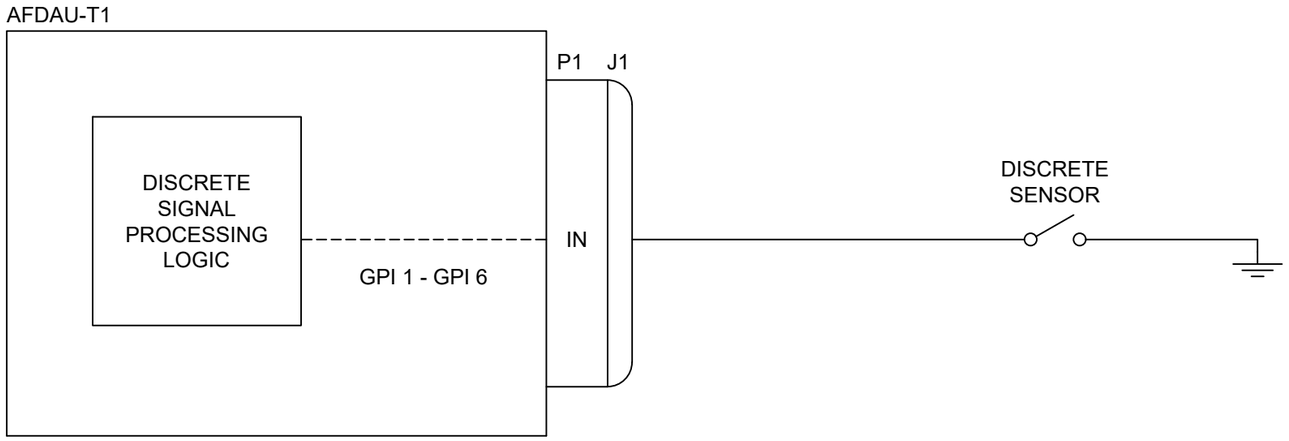
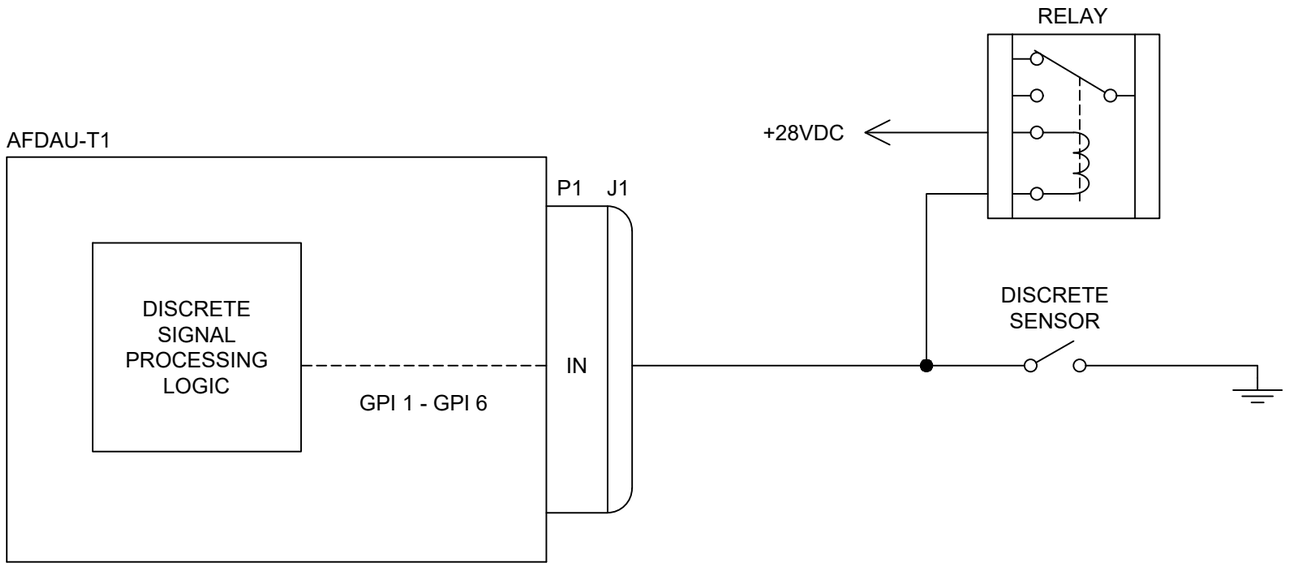


EXAMPLE: GROUND SWITCHED GPI

TABLE2 - GPI INPUTS

GPI	PIN	RECOMMENDED CONFIG
1	2	ADDITIVE SELECT
2	3	-
3	4	-
4	5	-
5	6	-
6	7	-



EXAMPLE: RELAY CIRCUIT IN PARALLEL WITH GPI

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DISCRETE INPUT WIRING: GENERAL PURPOSE INPUTS (GPI)

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