

ZONE	REV	EC NO.	DESCRIPTION	BY	DATE	APPROVED
-	-	-	NEW RELEASE	PR	6/27/07	TJG
A4	A	0707003	ADD AND CLARIFY NOTES ON ELECTRICAL BONDING AND SHIELDING	PR	7/25/07	TJG
C2 & D2	B	0708001	CORRECTION TO RS-232 I/O PIN ASSIGNMENTS	PR	8/20/07	TJG
C1 & D2	C	0708003	CORRECT SIGNAL NAMES TO I/O PIN LIST	PR	8/22/07	TJG
A4 & B4	D	0801002	UPDATED NOTE 4, ADDED NOTE 5	PR	3/28/08	TJG
D1 & B4	E	0911002	ADD WEIGHT TOLERANCE: CLAMP SINGLE IS68B TERMINAL	PR	2/5/10	TJG
B7 & A4	F	1211001	NOTE AND OUTLINE CHANGES	PR	12/12/12	TJG
G3&D4	G	1703002	CLARIFY SIGNAL NAMES IN PIN LIST AND NOTE 4	PR	04/02/18	TJG

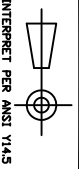
Pin No.	Signal	Pin No.	Signal
1	1553-1-BUSA+	1	Not used
2	1553-1-BUSA-	2	Not used
3	429-1-TXB-	3	429-3-TXB-
4	429-1-TXA+	4	429-3-TXA+
5	RS-232C TXD	5	Not used
6	RS-232C RTS	6	Not used
7	429-2-TXB-	7	429-4-TXB-
8	429-2-TXA+	8	429-4-TXA+
9	1553-1-BUSB+	9	Not used
10	1553-1-BUSB-	10	Not used
11	DIS-IN-1-Open/Gnd	11	DIS-IN-4-Open/Gnd
12	Aircraft 28V Power	12	Aircraft 28V Power
13	DIS-IN-2-Open/Gnd	13	DIS-IN-5-Open/Gnd
14	RS-232C CTS	14	Not used
15	RS-232C RXD	15	Not used
16	429-1-RXA+	16	429-7-RXA+
17	429-1-RXB-	17	429-7-RXB-
18	429-2-RXA+	18	429-8-RXA+
19	429-2-RXB-	19	429-8-RXB-
20	429-3-RXA+	20	429-9-RXA+
21	429-3-RXB-	21	429-9-RXB-
22	429-4-RXA+	22	429-10-RXA+
23	429-4-RXB-	23	429-10-RXB-
24	DIS-OUT-1-Open/Gnd	24	DIS-OUT-2-Open/Gnd
25	DIS-IN-3-Open/Gnd	25	DIS-IN-6-Open/Gnd
26	Aircraft Power Return/Gnd	26	Aircraft Power Return/Gnd
27	DIS-IN-1-28V/Open	27	DIS-IN-4-28V/Open
28	429-5-RXA+	28	429-11-RXA+
29	429-5-RXB-	29	429-11-RXB-
30	429-6-RXA+	30	429-12-RXA+
31	429-6-RXB-	31	429-12-RXB-
32	DIS-OUT-1-28V/Open	32	DIS-OUT-2-28V/Open
33	DIS-IN-2-28V/Open	33	DIS-IN-5-28V/Open
34	Signal Gnd	34	Signal Gnd
35	DIS-IN-3-28V/Open	35	DIS-IN-6-28V/Open
36	Signal Gnd	36	Signal Gnd
37	Discrete Output Return/Gnd	37	Discrete Output Return/Gnd

TOLERANCES	DRAWING/20/07
±.02	P. RIVARD
±.008	ENG 6/27/07
±.0001	T. GARNIER

ANGLES ± 1	APVD 6/27/07
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	T. GARNIER

AGILYNX, INC
 BILERICA, MA 01821
 LYNX PROTOCOL CONVERTER INSTALLATION

CAGEC	DRAWING NO.	REV
4R2P9	PCU100AAA	G



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION THE DISCLOSURE OF WHICH TO OTHERS IS PROHIBITED EXCEPT AS SPECIFICALLY AUTHORIZED BY AGILYNX, INC.

SIZE C SCALE 1/2 SHEET 1 OF 1

- UNIT WEIGHT 2.0 +/- 0.2 LBS
- COOLING
NO SPECIAL COOLING PROVISIONS ARE REQUIRED. AS WITH ANY ELECTRONIC EQUIPMENT, MAXIMUM EQUIPMENT LIFE WILL RESULT IF THE EQUIPMENT IS NOT LOCATED NEAR A HEAT SOURCE.
- EQUIPMENT ORIENTATION
THE EQUIPMENT HAS DRAIN HOLES IN THE FOUR CORNERS OF THE MOUNTING SURFACE TO PREVENT ACCUMULATION OF CONDENSED WATER VAPOR. FOR THIS REASON, THE UNIT MAY BE MOUNTED IN ANY ORIENTATION EXCEPT UPSIDE-DOWN, THAT IS, WITH BOTH MOUNTING FLANGES UP AND THE NAMEPLATE DOWN WITH RESPECT TO THE GRAVITY VECTOR.
- GROUNDING PROVISIONS
TO ENSURE EMI AND LIGHTNING PERFORMANCE, THE UNIT MUST BE ELECTRICALLY BONDED TO AIRCRAFT STRUCTURE. THE UNPAINTED BOTTOM SURFACES OF THE MOUNTING FLANGES ARE CONDUCTIVE FOR THIS PURPOSE. MATING CABLES SHOULD HAVE FULL EMI BACKSHELLS, AND ALL SIGNAL WIRE SHIELDS SHOULD BE TERMINATED TO THE BACKSHELL.
PINS J1-34, J2-34, J1-36, AND J2-36 (SIGNAL GND) ARE THE REFERENCE GROUNDS FOR THE ELECTRICAL CIRCUITS IN THE LYNX PROTOCOL CONVERTER. THESE FOUR PINS ARE ELECTRICALLY COMMON TO EACH OTHER. AT LEAST ONE OF THE FOUR PINS SHOULD BE CONNECTED TO THE AIRCRAFT GROUND AT A CONVENIENT POINT.
PINS J1-37 AND J2-37 "DISCRETE OUTPUT RETURN/GND" CARRY THE RETURN CURRENT FROM THE DISCRETE OUTPUT LOADS. THEY ARE ELECTRICALLY COMMON TO EACH OTHER AND ISOLATED FROM ALL OTHER GROUNDS AND CHASSIS. AT LEAST ONE OF THESE RETURNS MUST BE CONNECTED TO AIRCRAFT GROUND, PREFERABLY AT THE LOADS.
PINS J1-26 AND J2-26 (AIRCRAFT POWER RETURN/GND) ARE ELECTRICALLY COMMON TO EACH OTHER.
PINS J1-12 AND J2-12 (AIRCRAFT 28V POWER) ARE ELECTRICALLY COMMON TO EACH OTHER, AND EITHER OR BOTH MAY BE CONNECTED TO THE SAME LOW VOLTAGE DC AIRCRAFT POWER SOURCE. THEY ARE NOT DESIGNED FOR CONNECTION TO SEPARATE REDUNDANT POWER SOURCES UNLESS EACH SOURCE IS PROTECTED BY A SERIES DIODE TO PREVENT BACKDRIVING BY THE OTHER.
1553B CONFIGURATION
THE 1553B TERMINAL IS CONFIGURED FOR TRANSFORMER COUPLING.