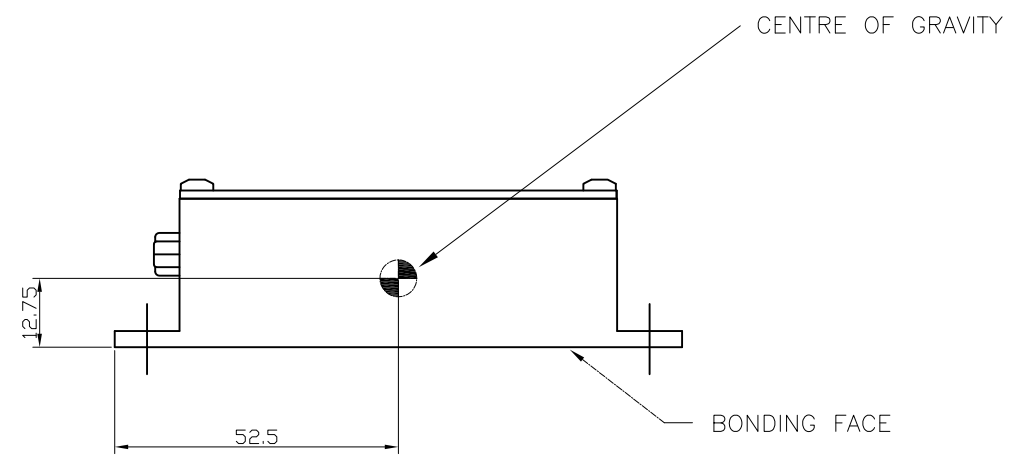


4 HOLES Ø 5.5

MATING ELECTRICAL PLUG
TYPE ITT CANNON
DAA15S-A197-F0



TECHNICAL DATA

THE IP5014MK01 IS A +28V POWERED PROTOCOL CONVERTER, PROVIDING A SINGLE CHANNEL CAN 2.0B INTERFACE AND A SINGLE CHANNEL ARINC-429 INPUT.

THE IP5014MK01 INCLUDES AN RS-232 MAINTENANCE INTERFACE FOR FIELD PROGRAMMING AND CONFIGURATION, A DISCRETE INPUT FOR ARINC-429 DATA RATE SELECTION AND A DISCRETE STATUS OUTPUT.

THE IP5014MK01 SUPPORTS THE J1939 PROTOCOL AND CONVERTS FOUR ARINC-429 INPUT WORDS TO FOUR J1939 MESSAGES AT AN OUTPUT RATE OF 10HZ.

GENERAL SPECIFICATION

POWER REQUIREMENTS: +28V POWERED (3W MAX)

WEIGHT: 0.200Kg MAX

TEMPERATURE:

OPERATING TEMPERATURE -45 TO +70 DEGREES C
STORAGE TEMPERATURE -55 TO +85 DEGREES C

PRODUCT SPECIFICATION

IP5014MK01-PS-1

INTERFACE CONTROL DOCUMENT (ICD)

IP5014MK01-ICD-1

SOFTWARE

SOFTWARE DEVELOPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF DO-178B LEVEL E.

COOLING

FREE AIR CONVECTION

PRODUCT REVISION IDENTIFICATION

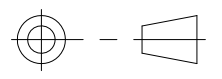
THE PRODUCT FOR WHICH THIS DOCUMENT RELATES SHALL BE IDENTIFIED WITH THE MAJOR REVISION NUMBER ONLY.

FOR EXAMPLE

DOCUMENT REVISION 2.03 REFERS TO PRODUCT REVISION 2

MINOR REVISIONS ARE RESERVED FOR DOCUMENTATION UPDATES THAT DO NOT AFFECT FORM FIT OR FUNCTION OF THE PRODUCT.

THIRD ANGLE PROJECTION TO B.S. 8888.
FOR GENERAL TOLERANCES & FINISHES
SEE NGINITY STANDARD NCP001.



©COPYRIGHT

IF IN DOUBT ASK

CAUTION- THIS DRAWING MAY NOT HAVE BEEN PRINTED FULL SIZE

APPROVED CHECKED	MATERIAL:- PRINCIPALLY ALUMINIUM ALLOY	FINISH:- ALOCROM 1200	TOLERANCES .XX +/-0.75 .XXX +/-0.25	ISSUE 1	DATE 12.08.09															
LJC				CHANGE	NEW															
DRAWN		SCALE: 1:1	TITLE	DRAWING NUMBER																SIZE
PDC		DIMS: MM	ARINC-429 TO CAN 2.0B CONVERTER MODULE	IP5014MK01	SHEET 1 OF 2	A2														

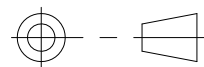
ELECTRICAL CONNECTIONS

PIN	FUNCTION	NOTES
1	+28VDC POWER INPUT	AIRCRAFT POWER +18 TO +32 VDC (+28V NOMINAL)
2	0V POWER INPUT	AIRCRAFT GROUND
3	CHASSIS	AIRCRAFT CHASSIS
4	ARINC-429 SPEED SELECT	OPEN = 100KHZ, 0V = 12.5KHZ, NOTE 1
5	DATA VALID	OPEN = FAULT, 0V = VALID, NOTE 1
6	RS-232 RX	NOTE 2
7	RS-232 TX	NOTE 2
8	RESERVED	
9	RESERVED	
10	DIGITAL GROUND	
11	ARINC-429 INPUT A	NOTE 3
12	ARINC-429 INPUT B	NOTE 3
13	RESERVED	
14	CAN BUS HI	NOTE 4
15	CAN BUS LO	NOTE 4

NOTES:

NOTE 1 SIGNAL REFERENCE TO PIN 2
 NOTE 2 RESERVED FOR MANUFACTURING TEST AND FIELD PROGRAMMING, REFERENCE TO PIN 10
 NOTE 3 INPUT REFERENCE TO PIN 10
 NOTE 4 OUTPUT REFERENCE TO PIN 10
 ALL INSTALLATION WIRES SHOULD BE SCREENED AND TERMINATED TO THE CONNECTOR BACKSHELL EXCEPT FOR POWER INPUT (PINS 1 & 2)

THIRD ANGLE PROJECTION TO B.S. 8888.
 FOR GENERAL TOLERANCES & FINISHES
 SEE NGINIVITY STANDARD NCP001.



©COPYRIGHT

IF IN DOUBT ASK

CAUTION- THIS DRAWING MAY NOT HAVE BEEN PRINTED FULL SIZE

APPROVED CHECKED	MATERIAL:- PRINCIPALLY ALUMINIUM ALLOY	FINISH:- ALOCROM 1200	TOLERANCES .XX +/-0.75 .XXX +/-0.25	ISSUE 1															
LJC				DATE 19.08.09															
DRAWN		SCALE: 1:1	TITLE	DRAWING NUMBER														SIZE	
PDC		DIMS: MM	ARINC-429 TO CAN 2.0B CONVERTER MODULE	IP5014MK01	SHEET 2 OF 2														A2