TECHNICAL DATA

THE PS014WK01 IS A 429V POWERED PROTOCOL CONVERTER,
PROVIDING A SINGLE CHANNEL CAN 2.0B INTERFACE AND A SINGLE
CHANNEL ARINC-429 INPUT.

THE PS014WK01 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 PS014WK01 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: 429V POWERED (3W MAX)
WEIGHT: 0.200kg MAX
TEMPERATURE:
OPERATING TEMPERATURE: -45 TO +70 DEGREES C
STORAGE TEMPERATURE: -55 TO +85 DEGREES C

PRODUCT SPECIFICATION

IPSO14WK01-PS-1
INTERFACE CONTROL DOCUMENT (ICD)
IPSO14WK01-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 NIGINTY STANDARD NCP001.

CAUTION- THIS DRAWING MAY NOT HAVE BEEN PRINTED FULL SIZE

IF IN DOUBT ASK
## Electrical Connections

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<td>28VDC POWER INPUT</td>
<td>AIRCRAFT POWER +18 TO +32 VDC (+28V NOMINAL)</td>
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<tr>
<td>2</td>
<td>28V POWER INPUT</td>
<td>AIRCRAFT GROUND</td>
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<tr>
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<td>CHASSIS</td>
<td>AIRCRAFT CHASSIS</td>
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<td>4</td>
<td>ARINC-429 SPEED SELECT</td>
<td>OPEN = 100KHZ, 0V = 12.5KHZ, NOTE 1</td>
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<td>5</td>
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<td>OPEN = FAULT, 0V = VALID, NOTE 1</td>
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<td>10</td>
<td>DIGITAL GROUND</td>
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<td>ARINC-429 INPUT A</td>
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<td>ARINC-429 INPUT B</td>
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<td>15</td>
<td>CAN BUS LO</td>
<td>NOTE 4</td>
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### Notes:

1. SIGNAL REFERENCE TO PIN 2.
2. RESERVED FOR MANUFACTURING TEST AND FIELD PROGRAMMING, REFERENCE TO PIN 10.
3. INPUT REFERENCE TO PIN 10.
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).**

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