

| CHANGE HISTORY |                 |                       |           |
|----------------|-----------------|-----------------------|-----------|
| REV            | PAGE/ZONE       | DESCRIPTION OF CHANGE | DATE      |
| R01            | Alpha Release   |                       | 7/22/2016 |
| R02            | Alpha 2 Release |                       | 9/14/2016 |

U\_RevisionLog  
RevisionLog.SchDoc



REPEAT(U\_SensorConn1,1,8)  
SensorConn.SchDoc



SENSOR\_E      SENSOR\_E[1..8]  
SENSOR\_D      SENSOR\_D[1..8]  
SENSOR\_VCC1

SENSOR\_VCC1[1..4]

REPEAT(U\_SensorConn2,9,16)  
SensorConn.SchDoc



SENSOR\_E      SENSOR\_E[9..16]  
SENSOR\_D      SENSOR\_D[9..16]  
SENSOR\_VCC2

REPEAT(U\_SensorConn3,17,24)  
SensorConn.SchDoc



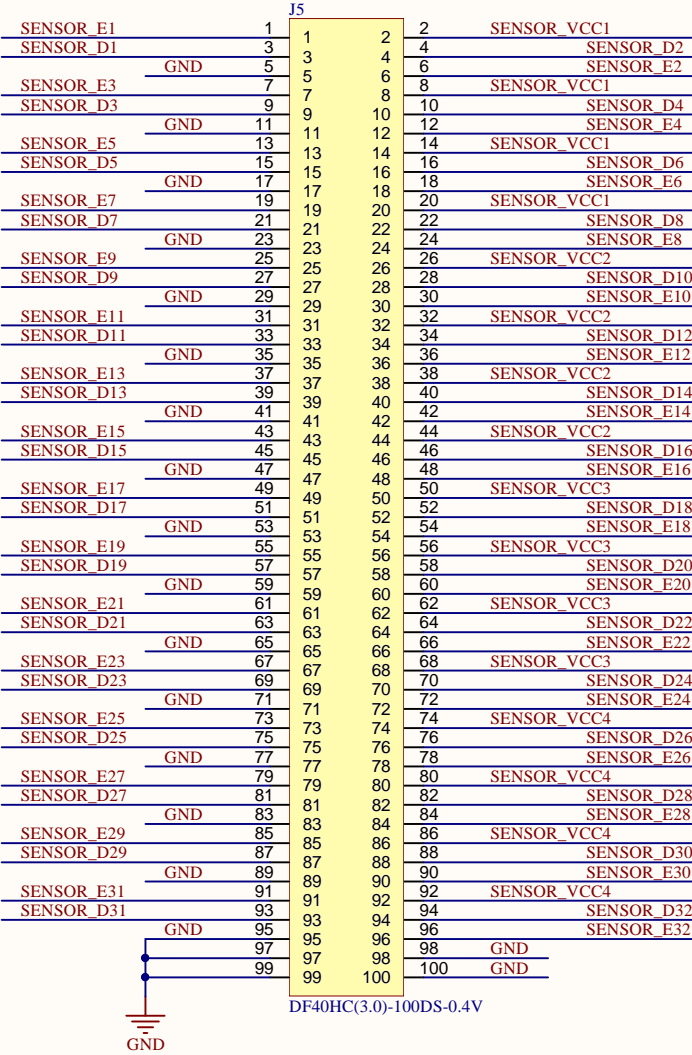
SENSOR\_E      SENSOR\_E[17..24]  
SENSOR\_D      SENSOR\_D[17..24]  
SENSOR\_VCC3

REPEAT(U\_SensorConn4,25,32)  
SensorConn.SchDoc



SENSOR\_E      SENSOR\_E[25..32]  
SENSOR\_D      SENSOR\_D[25..32]  
SENSOR\_VCC4

▲ Signals on the odd numbered ports are swapped to ease layout and avoid vias in the flex circuit. This difference must be accounted for in the FPGA pin connect file.



Design Notes:

Layout Notes:

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Project: Ventriloquist

PCBA: HMD Sensor Breakout FPC

Sheet Title: Core Module

Drawn by: D. Bruey, M. Ciuffo

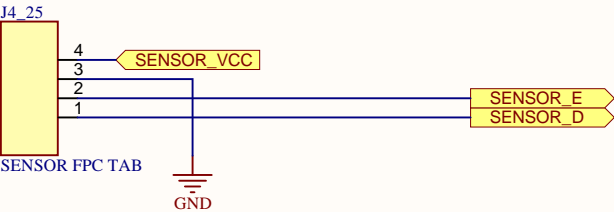
Schematic Part Number: 602-100885

Schematic Revision: 02

Date: 9/14/2016

Sheet: 1 / 3

The Sensor Port Number is the J4 instance number minus 1.  
For example J4\_1 is Port #0 and J4\_32 is Port #31



Design Notes:

Layout Notes:

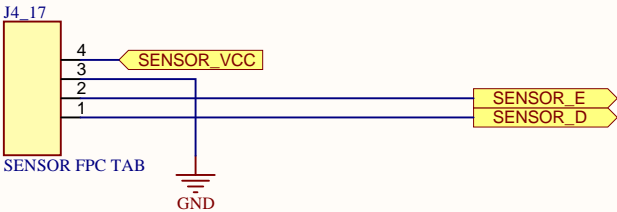
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|                                   |                               |
|-----------------------------------|-------------------------------|
| Project: Ventriloquist            | PCBA: HMD Sensor Breakout FPC |
| Sheet Title: Sensor Connectors    |                               |
| Drawn by: D. Bruey, M. Ciuffo     |                               |
| Schematic Part Number: 602-100885 | Schematic Revision: 02        |
| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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Project: Ventriloquist

PCBA: HMD Sensor Breakout FPC

Sheet Title: Sensor Connectors

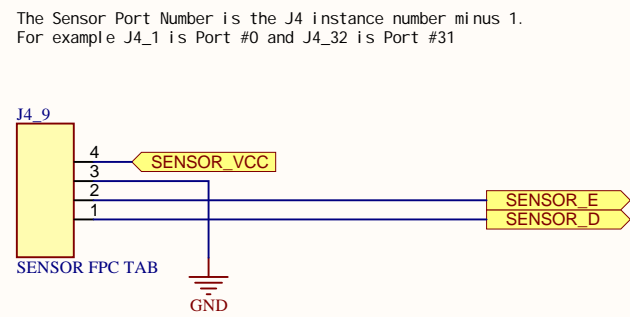
Drawn by: D. Bruey, M. Ciuffo

Schematic Part Number: 602-100885

Schematic Revision: 02

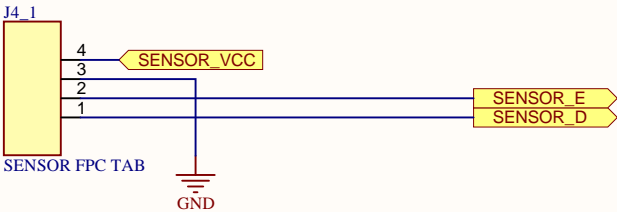
Date: 9/14/2016

Sheet: 2 / 3



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|               |               |                                                                                                                                                                                                                                                                                                                                                                                                   | Sheet Title: Sensor Connectors                      |                        |
|               |               |                                                                                                                                                                                                                                                                                                                                                                                                   | Drawn by: D. Bruey, M. Ciuffo                       |                        |
|               |               |                                                                                                                                                                                                                                                                                                                                                                                                   | Schematic Part Number: 602-100885                   | Schematic Revision: 02 |
|               |               |                                                                                                                                                                                                                                                                                                                                                                                                   | Date: 9/14/2016                                     | Sheet: 2 / 3           |

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Project: Ventriloquist

PCBA: HMD Sensor Breakout FPC

Sheet Title: Sensor Connectors

Drawn by: D. Bruey, M. Ciuffo

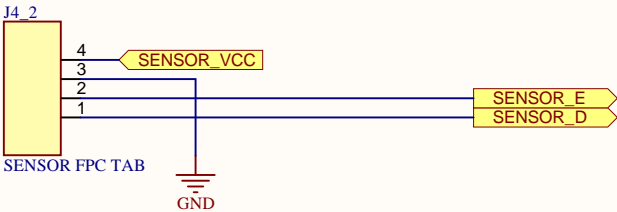
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PCBA: HMD Sensor Breakout FPC

Sheet Title: Sensor Connectors

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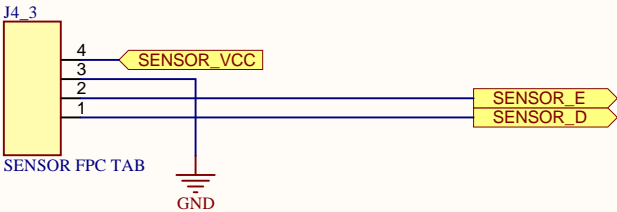
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Sheet: 2 / 3

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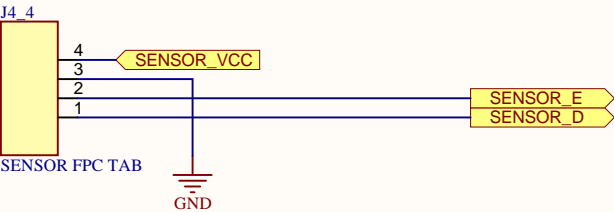
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| <b>Sheet Title:</b> Sensor Connectors    |                                      |
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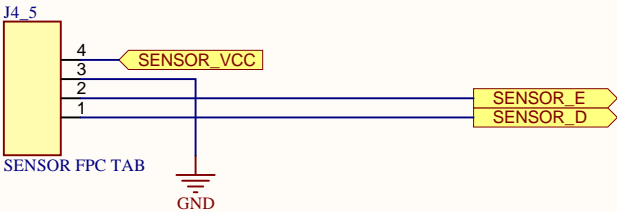
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Project: Ventriloquist

PCBA: HMD Sensor Breakout FPC

Sheet Title: Sensor Connectors

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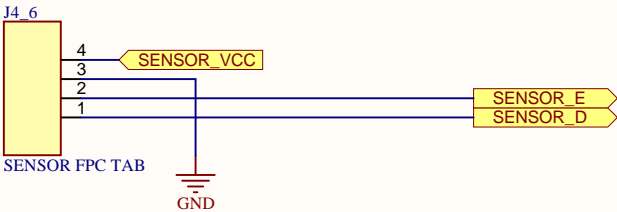
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Date: 9/14/2016

Sheet: 2 / 3

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Drawn by: D. Bruey, M. Ciuffo

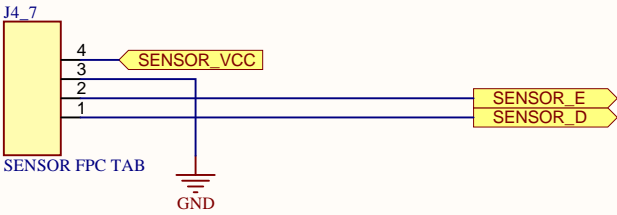
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Sheet: 2 / 3

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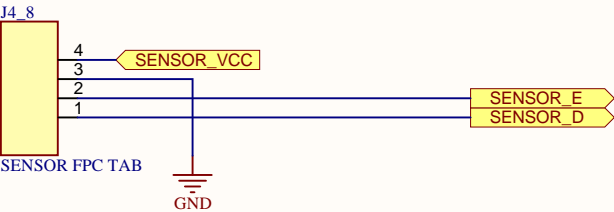
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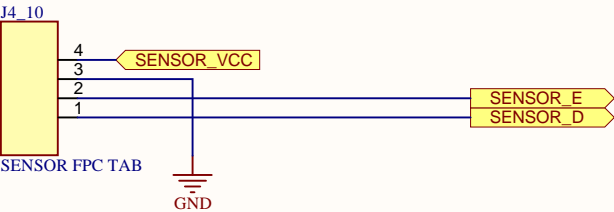
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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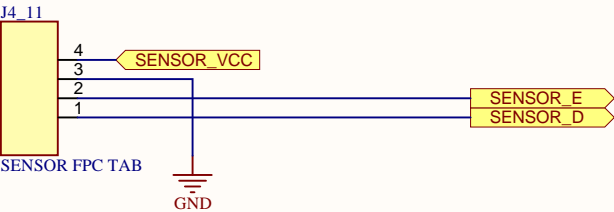
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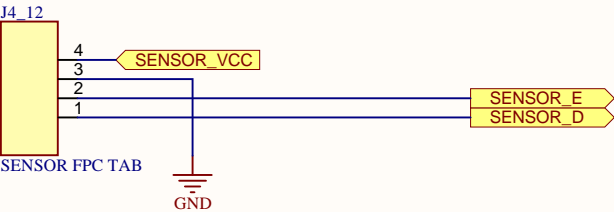
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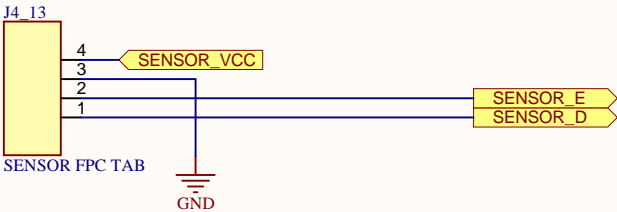
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| <b>Project:</b> Ventriloquist            | <b>PCBA:</b> HMD Sensor Breakout FPC |
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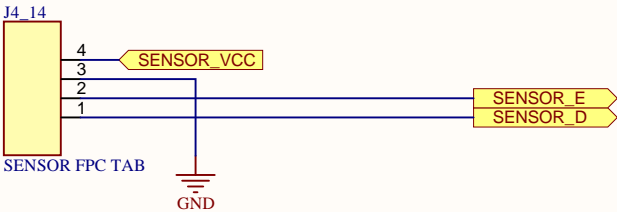
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Project: Ventriloquist

PCBA: HMD Sensor Breakout FPC

Sheet Title: Sensor Connectors

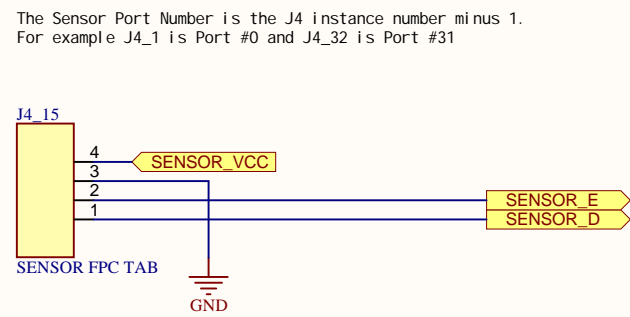
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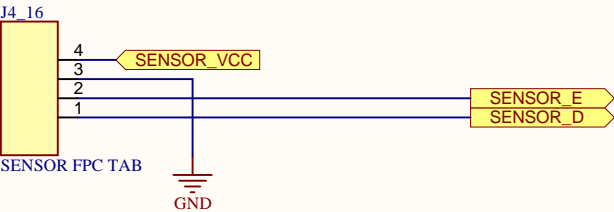
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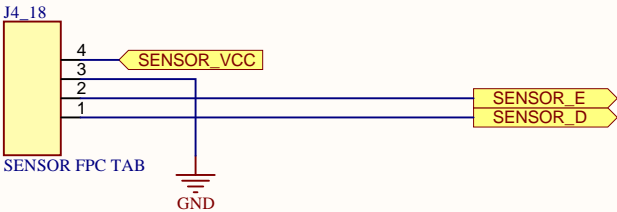
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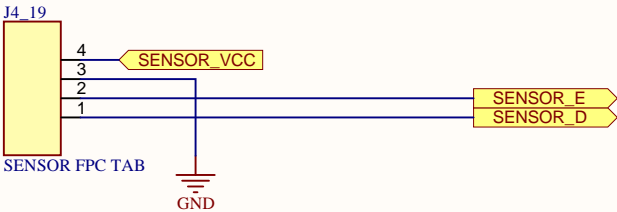
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PCBA: HMD Sensor Breakout FPC

Sheet Title: Sensor Connectors

Drawn by: D. Bruey, M. Ciuffo

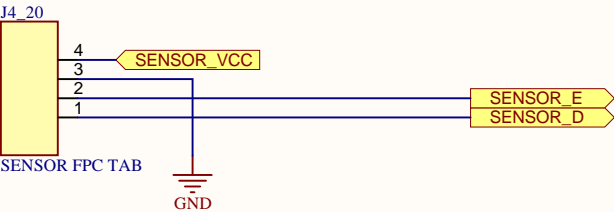
Schematic Part Number: 602-100885

Schematic Revision: 02

Date: 9/14/2016

Sheet: 2 / 3

The Sensor Port Number is the J4 instance number minus 1.  
For example J4\_1 is Port #0 and J4\_32 is Port #31



Design Notes:

Layout Notes:

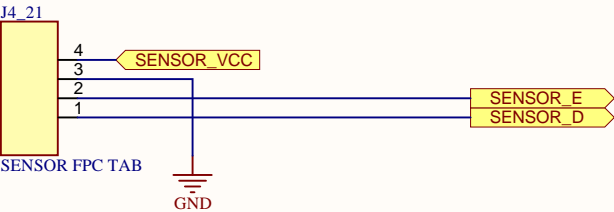
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|-----------------------------------|-------------------------------|
| Project: Ventriloquist            | PCBA: HMD Sensor Breakout FPC |
| Sheet Title: Sensor Connectors    |                               |
| Drawn by: D. Bruey, M. Ciuffo     |                               |
| Schematic Part Number: 602-100885 | Schematic Revision: 02        |
| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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Design Notes:

Layout Notes:

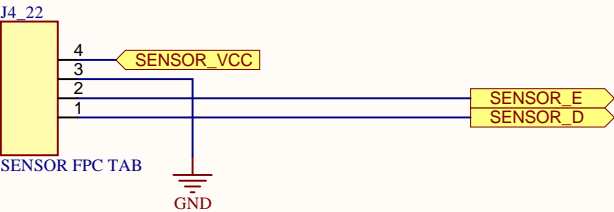
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| Sheet Title: Sensor Connectors    |                               |
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| Schematic Part Number: 602-100885 | Schematic Revision: 02        |
| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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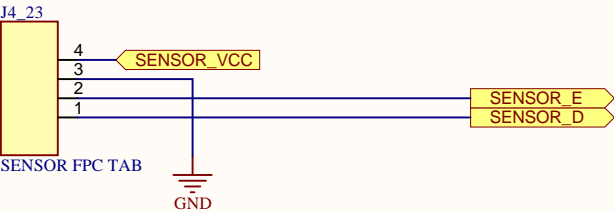
Design Notes:

Layout Notes:

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|-------------------------------|
| <div><div>SYNAPSE</div><div>1511 6th Ave., Suite 400<br/>Seattle, Washington 98101<br/>206.361.0898  <br/>www.synapse.com</div><div>THE INFORMATION CONTAINED IN THIS<br/>DRAWING IS PROPRIETARY AND<br/>RESTRICTED. ANY REPRODUCTION INPART<br/>OR WHOLE WITHOUT THE EXPRESS<br/>WRITTEN PERMISSION OF THE OWNER IS<br/>PROHIBITED.</div></div> |  | Project: Ventriloquist | PCBA: HMD Sensor Breakout FPC |
| Sheet Title: Sensor Connectors                                                                                                                                                                                                                                                                                                                   |  |                        |                               |
| Drawn by: D. Bruey, M. Ciuffo                                                                                                                                                                                                                                                                                                                    |  |                        |                               |
| Schematic Part Number: 602-100885                                                                                                                                                                                                                                                                                                                |  | Schematic Revision: 02 |                               |
| Date: 9/14/2016                                                                                                                                                                                                                                                                                                                                  |  | Sheet: 2 / 3           |                               |



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Design Notes:

Layout Notes:

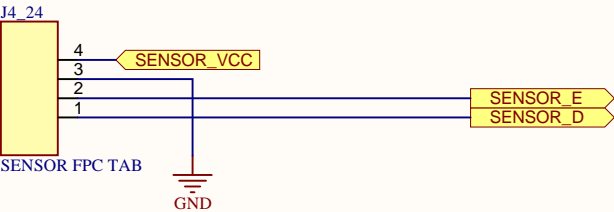
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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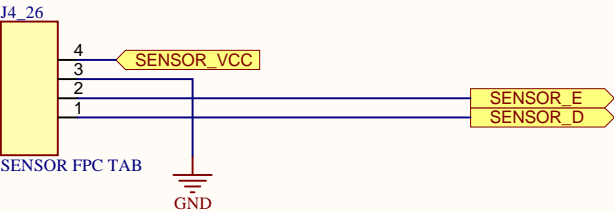
**Design Notes:**

**Layout Notes:**

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|------------------------------------------|--------------------------------------|
| <b>Project:</b> Ventriloquist            | <b>PCBA:</b> HMD Sensor Breakout FPC |
| <b>Sheet Title:</b> Sensor Connectors    |                                      |
| <b>Drawn by:</b> D. Bruey, M. Ciuffo     |                                      |
| <b>Schematic Part Number:</b> 602-100885 | <b>Schematic Revision:</b> 02        |
| <b>Date:</b> 9/14/2016                   | <b>Sheet:</b> 2 / 3                  |

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Design Notes:

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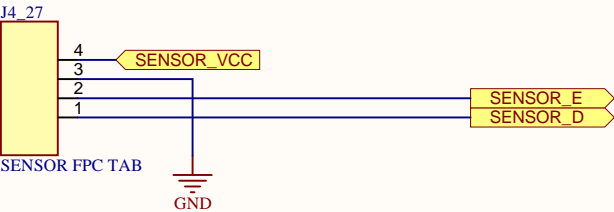
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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Design Notes:

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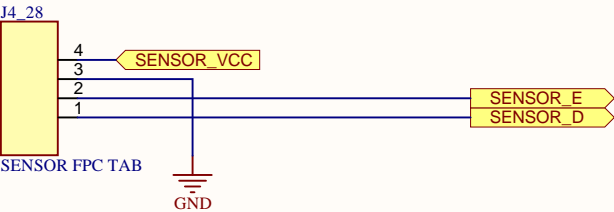
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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Design Notes:

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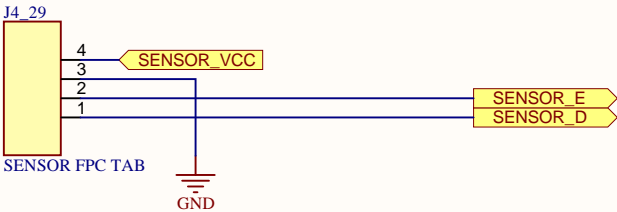
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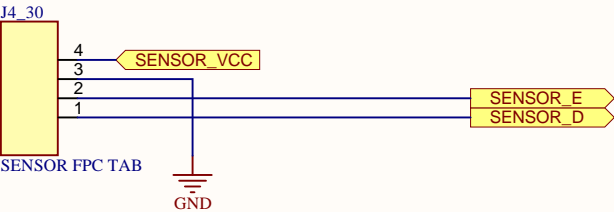
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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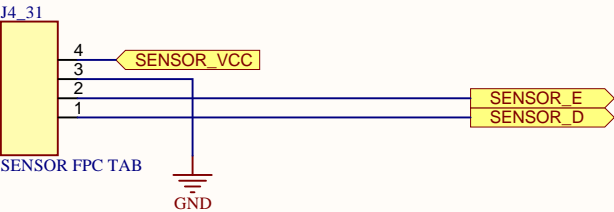
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |

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Design Notes:

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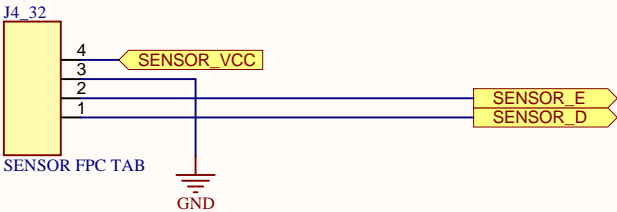
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| Date: 9/14/2016                   | Sheet: 2 / 3                  |



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| Project: Ventriloquist            | PCBA: HMD Sensor Breakout FPC |
| Sheet Title: Sensor Connectors    |                               |
| Drawn by: D. Bruey, M. Ciuffo     |                               |
| Schematic Part Number: 602-100885 | Schematic Revision: 02        |
| Date: 9/14/2016                   | Sheet: 2 / 3                  |

| CHANGE HISTORY |                       |           |
|----------------|-----------------------|-----------|
| REV            | DESCRIPTION OF CHANGE | DATE      |
| R01            | Alpha Release         | 7/22/2016 |
| R02            | Alpha 2 Release       | 9/14/2016 |

Design Notes:

Layout Notes:

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Project: Ventriloquist

PCBA: HMD Sensor Breakout FP

Sheet Title: Revision Log

Drawn by: D. Bruey, M. Ciuffo

Schematic Part Number: 602-100885

Schematic Revision: 02

Date: 9/14/2016

Sheet: 3 / 3