## **DSG-RICH R&D Meeting Minutes**

Date: February 5, 2021 Time: 11:00AM – 12:00PM

<u>Attendees</u>: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Reviewed RICH-II planning meeting with INFN collaborators and Hall B

## 2. RICH-II interlock system

- 2.1. SHT-35 alert and reset pins will not be used
  - 2.1.1. Alert pin is a built-in capability to send a 3.3 VDC signal to controller, which is unneeded because interlock program performs monitoring and interlocking of sensor
  - 2.1.2. Reset pin allows simple soft-reset of SHT-35; able to perform soft-reset through I<sup>2</sup>C command, making reset pin unneeded

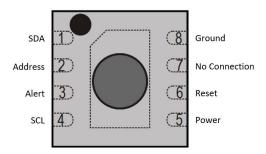


Fig. 1: SHT-35 pin out

- 2.2. Each sensor used will have independent  $I^2C$  communication lines to prevent problems reading out other sensors on the same bus if a sensor fails
  - 2.2.1. One sbRIO can read 24 sensors; multiplexers will be investigated to allow more sensors to be read by one sbRIO

## Each sensor also has an independent 3.3 VDC power and Ground connection

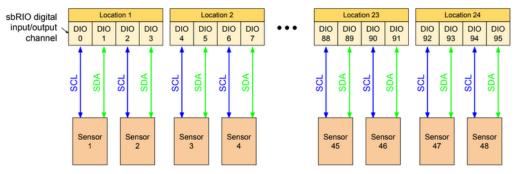


Fig. 2: Diagram showing each sensor with its own I<sup>2</sup>C communication lines. Each sensors' independent 3.3 VDC power and ground not shown.