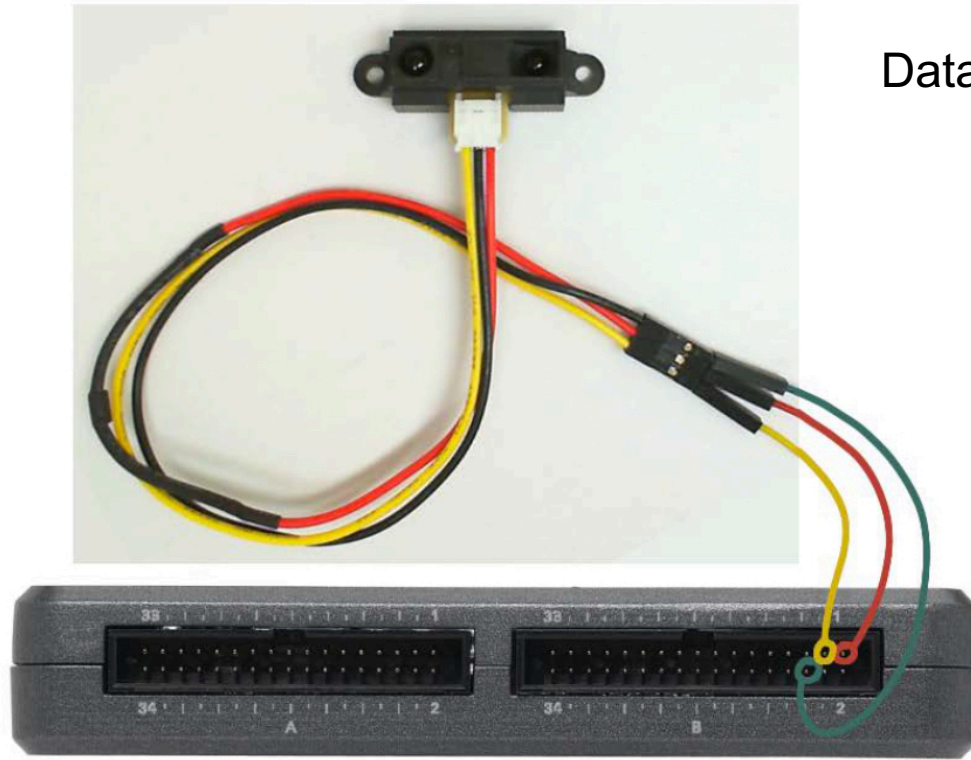# ELEN90066 Embedded System Design

Workshop 3 – Interfacing sensors to the myRIO platform

Workshop 3 marking

- There are three tasks to complete in the workshop today, total of 25 marks

  - <u>TASK 1</u> : Wire the IR range finder to the myRIO and read the sensor data using the ``IR Range Finder demo'' LabVIEW project: 5 marks

  - <u>TASK 2</u>: Measure the sensitivity and bias of the IR sensor: 10 marks

  - <u>TASK 3</u>: Modify the Main.vi in LabVIEW to add new features: 10 marks

Please notify me every time you finish one of the assessed tasks, so I can check that off for you!

IR sensor wiring

Data sheet is on LMS!

IR sensor / LabVIEW videos

- IR Range Finder Interfacing Theory (9:59)

http://youtu.be/Xwr-j-2WT3k

- Analog Input Express VI (2:00)

http://youtu.be/N6Mi-VjBlmc

- IR Range Finder Demo Walk-Through (3:51)

http://youtu.be/BFgeIRQxJ_E

Workshop Complete!