

# EduRobots

## Torque Transducer

Industry: Industrial Automation

### Summary

#### Customer Challenge

Education robots, or EduRobots, are robotic devices or systems designed to assist and enhance the learning experience for students. These robots are equipped with advanced technologies and artificial intelligence to facilitate a more immersive and effective learning environment. For humanoid EduRobots, testing is needed to ensure their limbs move properly.

#### Interface Solution

Interface's MRTP Miniature Overload Protected Flange Style Reaction Torque Transducers connects to the servo motors in the limbs of humanoid EduRobots. During the testing phases, the customer can view torque results on their PC when the transducers are connected to the BX8-AS BlueDAQ Series Data Acquisition with Industrial Enclosure.

#### Results

Interface's MRTP torque transducer successfully measured the torque of the servo motors used to move the limbs of the humanoid EduRobot.

### Materials

- MRTP Miniature Overload Protected Flange Style Reaction Torque Transducers
- BX8-AS BlueDAQ Series Data Acquisition with Industrial Enclosure with included BlueDAQ software
- EduRobot under test
- Customer PC or Laptop

### How It Works

1. The MRTP Miniature Overload Protected Flange Style Reaction Torque Transducers are attached to the servo motors inside of the limbs of the EduRobot's body.
2. The BX8-AS BlueDAQ Series Data Acquisition will collect the torque results, where it can be displayed when connected to the customer's PC with supplied BlueDAQ software.

