CASCADE

SATT NORD
Technology Transfer Office

Capacitive Sensitive Cable for Obstacle Detection

Keywords

- Capacitive Sensitive Cable
- Obstacle Detection
- Collaborative Robotics
- Parallel Cable Robotics
- Access Securing

Intellectual Property

Patented technology

Development Status

Prototype Development in progress in the domain of parallel cable robotics

Partnership

Licensing and/or partnership

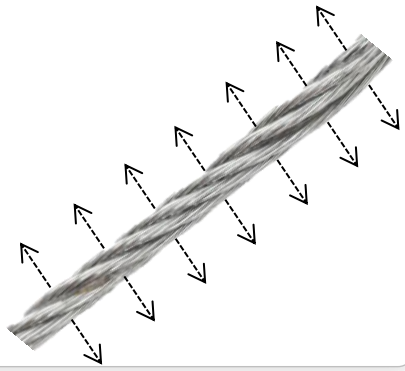
Technology

Cable sensitive to the proximity of obstacles (human, object, etc.) allowing detection of a presence / intrusion in the perimeter close to the cable using capacitive sensors

- Electric potential of the cable core
- Induces the blindage which emits an electric field around it
- Any intrusion in this field modifies the capacity of the cable core

Cable features:

- Traction/lifting
- Detection up to 45 cm
- Energy transport
- Signal transport

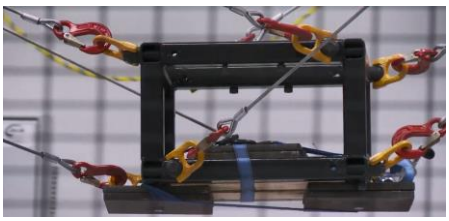


Benefits

- Advantageous solution for use in an industrial environment
- All materials Contactless detection
- Insensitive to disturbances and impurities
- Possibility of detecting and stopping a moving object (e.g. Parallel Cable Robot) before contact with an obstacle (material or human) in its operating area

Applications

- Collaborative Industrial Robotics
- Parallel Cable Robotics
- Access securing within industrial environments



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