FLEXCO Load Sensing Technology

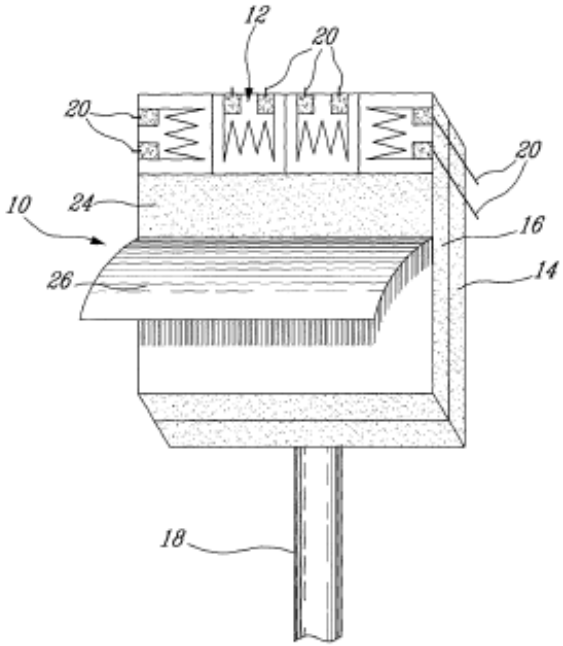
Elevator Applications

FLEXCO INDUSTRIES

7493 Trans Canada hwy suit 105A
Saint-Laurent (QC) H4T 1T3, Canada

Introduction About the Technology

- Name: FLEXCO Sensor
- Canadian Technology
- Patented in
  - USA (# 8215178)
  - Canada
  - Japan
  - Australia
  - China
  - Other countries are pending
  - Over 10 years of various applications
- Main reasons for our patented technology is safety and to make steel talk
- Other applications such as weighing, security, case study, R&D...



FLEXCO INDUSTRIES

7493 Trans Canada hwy suit 105A
Saint-Laurent (QC) H4T 1T3, Canada

Benefits of the System

The main benefits of the system are:

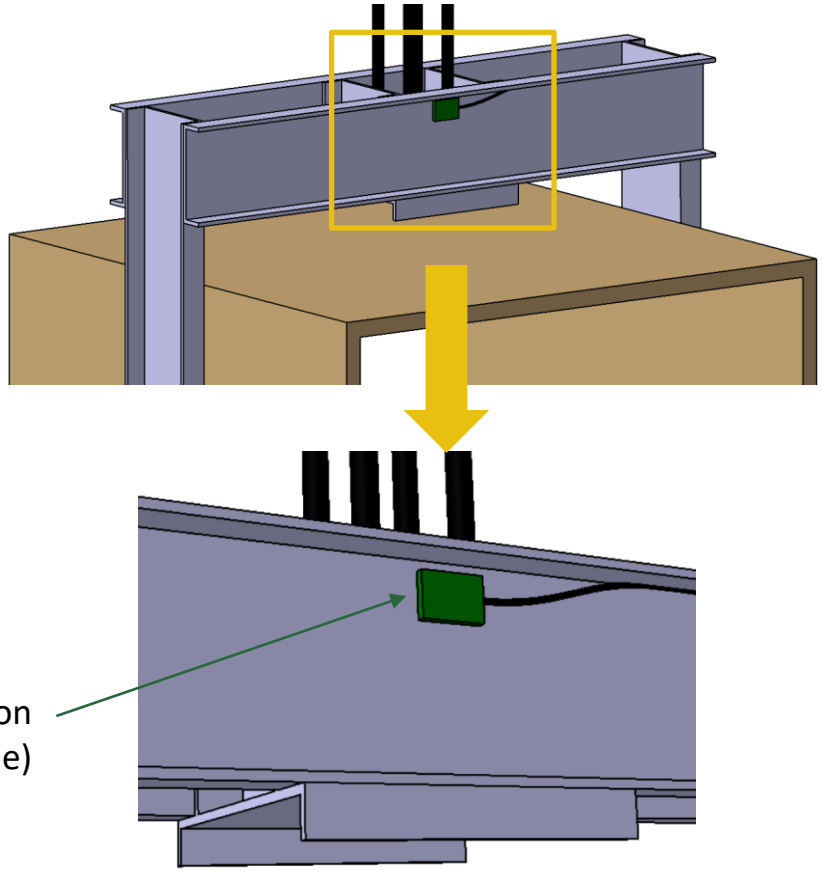
- Easy and quick to install on any existing structure without any structural modifications
- Results in accurate readings
- Able to handle unlimited load capacity
- Durable and reliable under severe weather conditions
- Can convert any surface to a scale

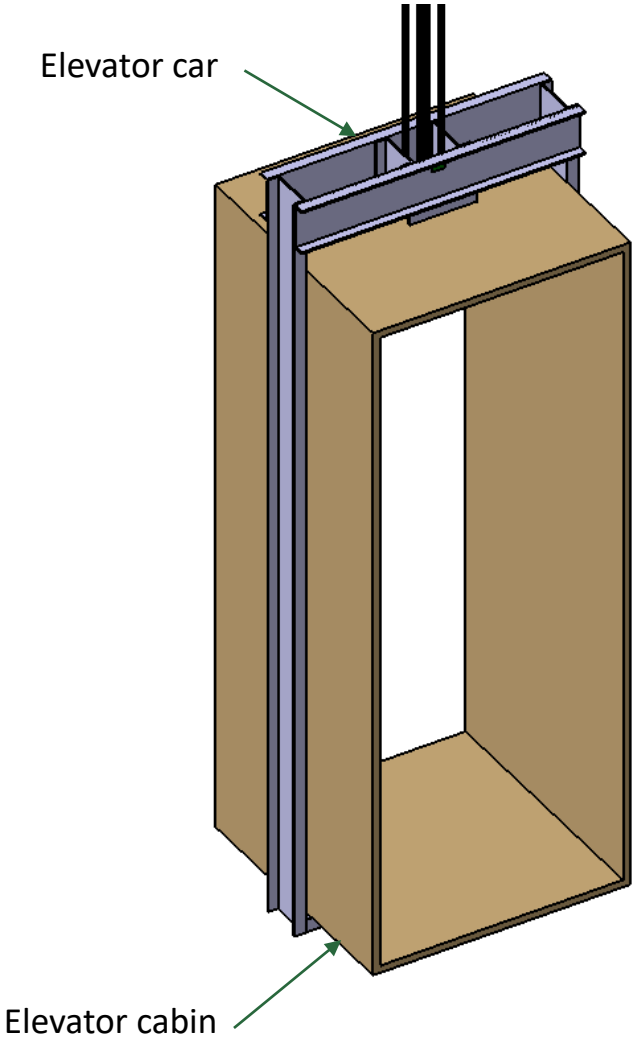
Overview – Elevator Application

- Sensors are installed on elevator car sling's frame
- Sensors will measure the total weight of cabin content and transmits the output in mV to the elevator weight module controller
- Our sensors are currently in use on most common types of car slings configurations. However we can accommodate any other type of configuration
- Very accurate and reliable readings
- Readings are repeatable and linear, resulting in minimum maintenance
- Quick to install, resulting in minimum down time
- Only one technician is required to install and calibrate the system
- Compatible with all elevator brands worldwide

Installation Configuration

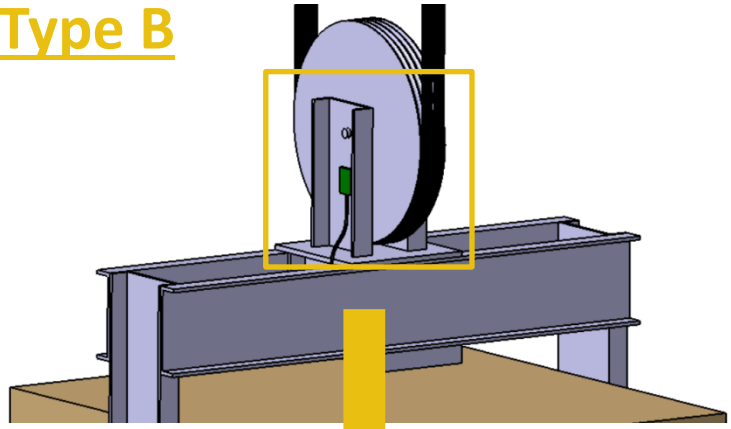
Car Sling Type A



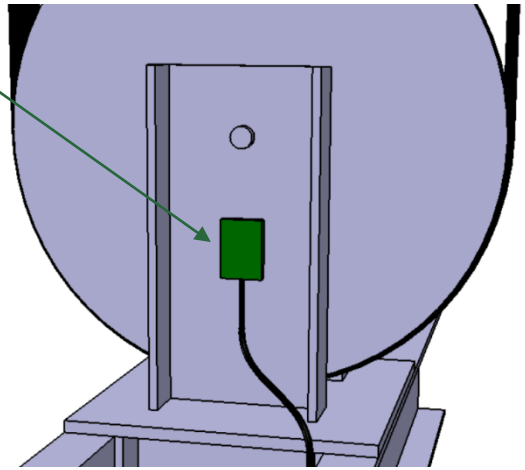


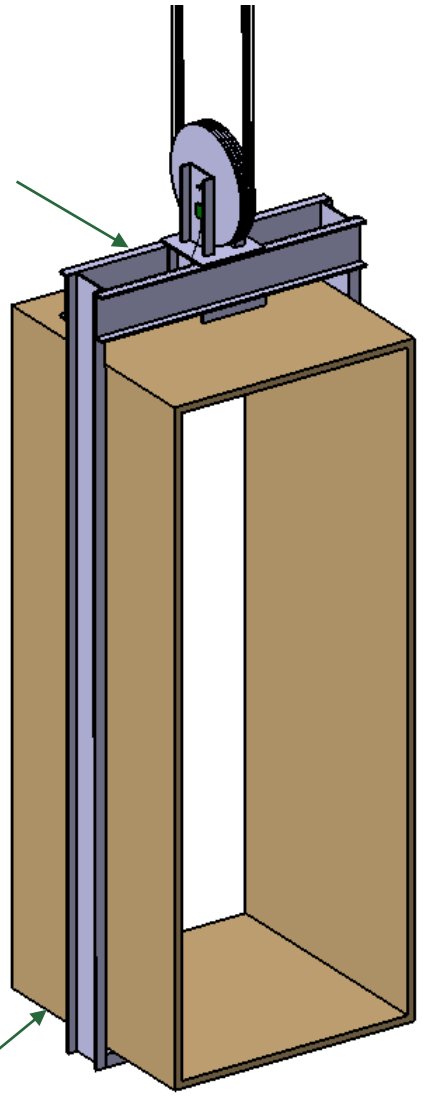
Installation Configuration

Car Sling Type B



Sensor location
(1 at each side)





FLEXCO INDUSTRIES

Advantages of our System

Our patented sensor technology is replacing traditional weighing systems on elevators for the following reasons:

- Only two sensors are required regardless the model, brand, and type of the elevator
- Very simple and quick to install
- No need to adjust the tension level on every single wire rope of the elevator
- Same size sensor can be applied on any given capacity
- Very easy to calibrate and very accurate
- Light weight (each sensor weighs less than 100 grams)
- Keeps the wire ropes of the elevator free from sensors/parts and cables
- Sensors are fully protected with a stainless steel housing for extra protection
- No modifications required to the elevator’s structure

Technical Specs for Flexco Sensor

- Dimensions of the actual sensor are 25mm X 25mm X 5mm
- Material for Protective Sensor housing : Stainless Steel ‘’Dimensions: 60mm X 40mm X 20mm’’
- PG-7 on the sensor’s protective housing ‘’to make the sensor cable waterproof’’
- Rated Capacity: Same sensor for any given capacity ‘’no capacity for the actual sensor’’
- Input: 350 OHMS ± 3 OHMS
- Output: 350 OHMS ± 3 OHMS
- Insulation Impedance: Less than 5000 MEGA OHMS
- Operating Temperature: -40 TO +60 ℃
- Maximum Safe and Unlimited Overload: Depends on your actual structure
- Excitation: From 1 to 12 VDC ‘’MAX 15 VDC’’

Sensor Cable:

- Sensor’s Cable Material ‘’outside jacket’’: PVC
- CSA & ULC approved
- Cable length choices: 15’ or 25’
- Four conductors Cable ‘’Red(EXC+), Black(EXC-), Green(Sig+), White(Sig-)’’