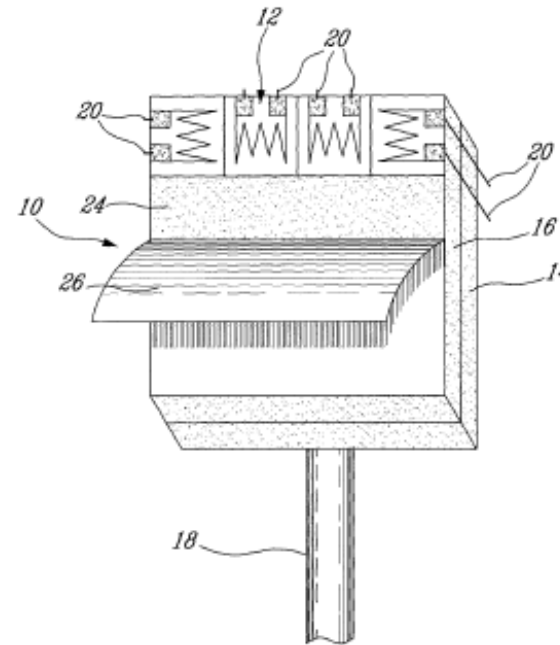


FLEXCO Load Sensing Technology

Elevator Applications

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...



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

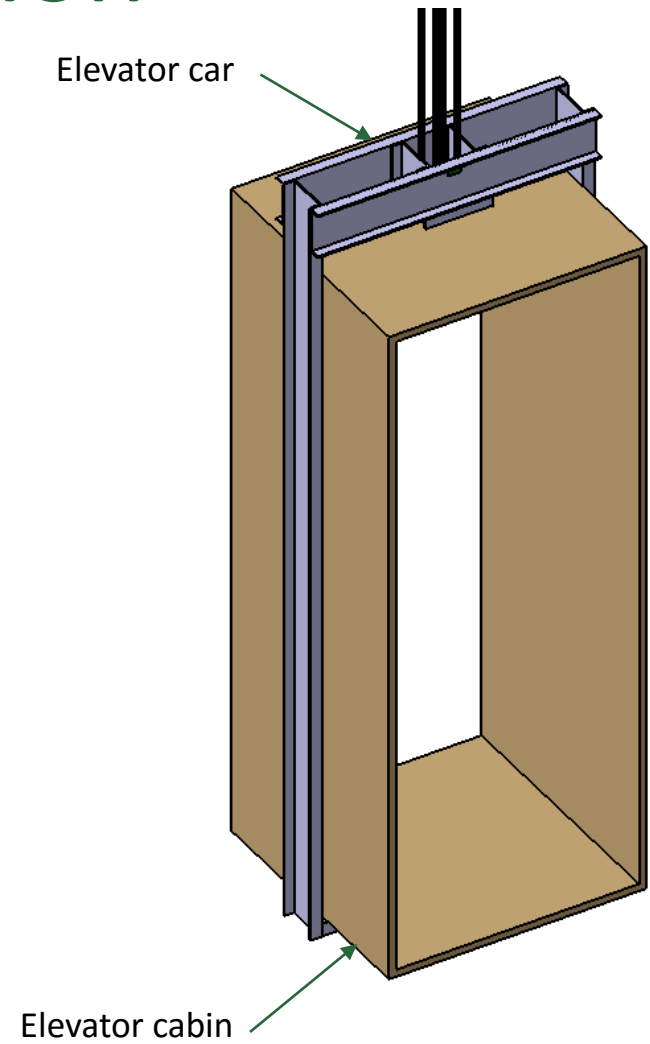
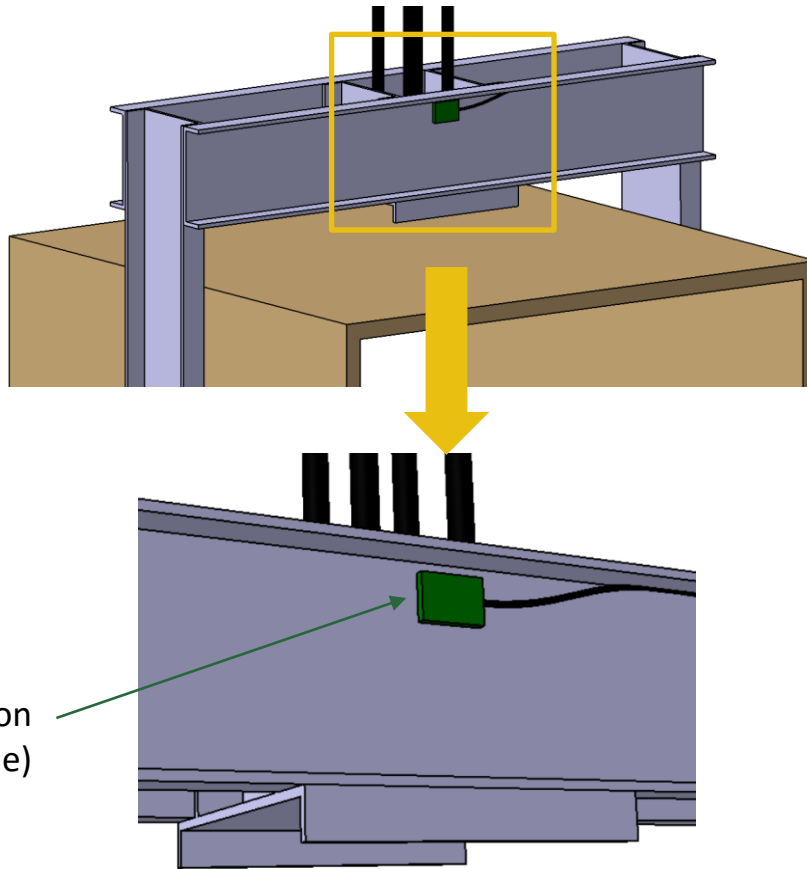


Overview – Elevator Application

- 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

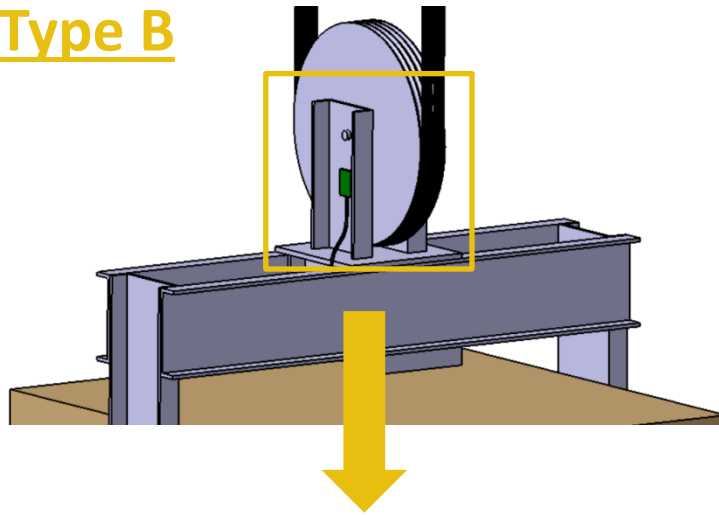
Installation Configuration

Car Sling Type A

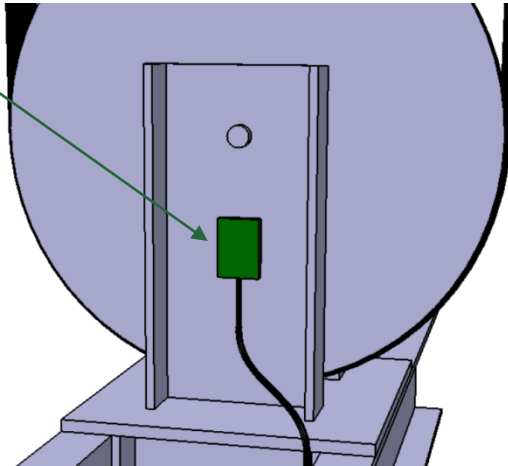


Installation Configuration

Car Sling Type B

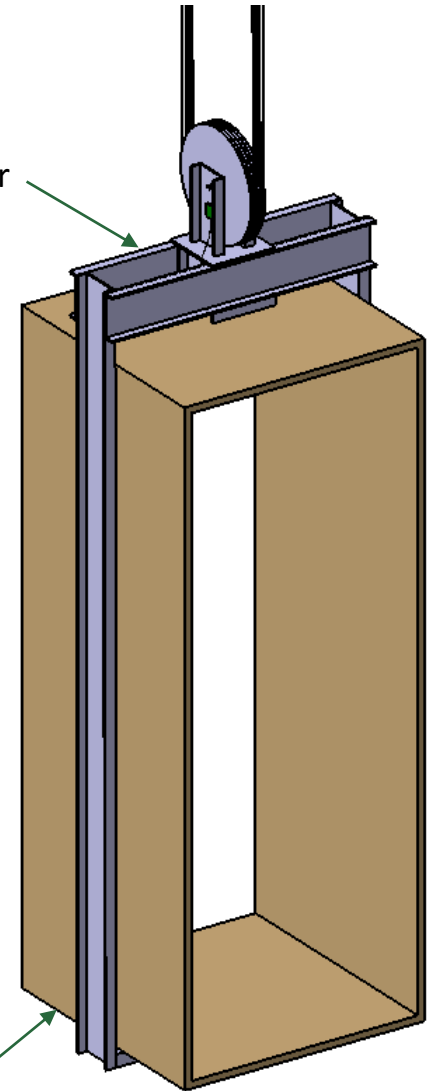


Sensor location
(1 at each side)



Elevator car

Elevator cabin



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 \pm 3 OHMS
- Output: 350 OHMS \pm 3 OHMS
- Insulation Impedance: Less than 5000 MEGA OHMS
- Operating Temperature: -40 TO +60 °C
- 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”: Polyurethane
- Shielded Cable
- Cable length choices: 15’ or 25’
- Four conductors Cable “Red(EXC+), Black(EXC-), Green(Sig+), White(Sig-)”

Training and Installation Process

Training:

- Comprehensive training on how to install and calibrate our sensors can be provided to the dealer(s) at the site of the first installation
- Training duration is 6 hours maximum
- We recommend to train at least two technicians
- We provide after sales services to our dealers

Installation:

- Installation can take less than 30 min
- Installation procedure:
 1. Polish the surface where the sensor will be installed
 2. Degrease the surface
 3. Bond the sensor to the surface
 4. Seal actual sensor
 5. Apply protection cover over the sensor
 6. Seal protection cover
 7. Connect sensor cable to elevator control panel

