

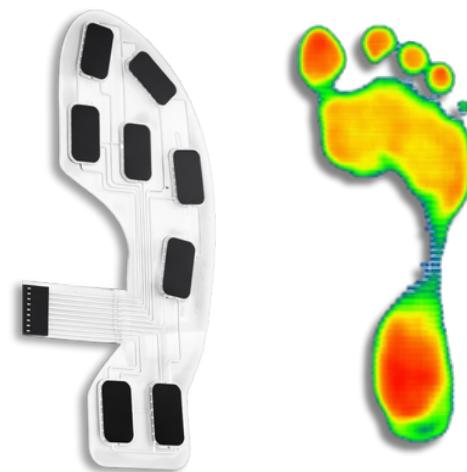
## FOOT PRESSURE INSOLE SENSOR

### ◆ Description :

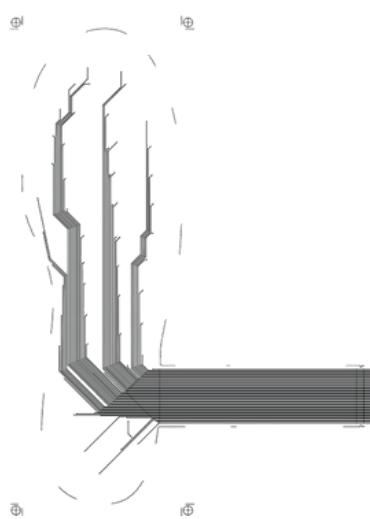
Introducing our Foot Insole Printed Force Sensor, a cutting-edge solution designed to provide real-time, accurate, and unobtrusive monitoring of foot pressure and force distribution. This innovative sensor is ideal for a wide range of applications, from sports performance analysis and medical diagnostics to rehabilitation and gait analysis. Flexible, cost-efficient, can be custom designed for specific applications and offers various integration possibilities.

### ◆ Application :

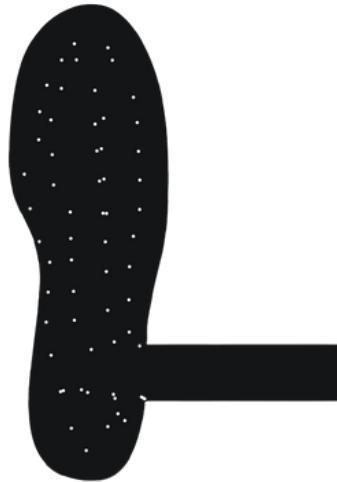
- Sports & Medical Performance Optimization
- Diagnosing Foot Conditions
- Rehabilitation Progress Tracking
- Gait Analysis
- Footwear Development



### ◆ Interface Diagram :



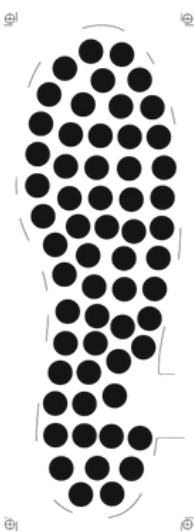
**Sequence - 1**



**Sequence - 2**



**Sequence - 3**



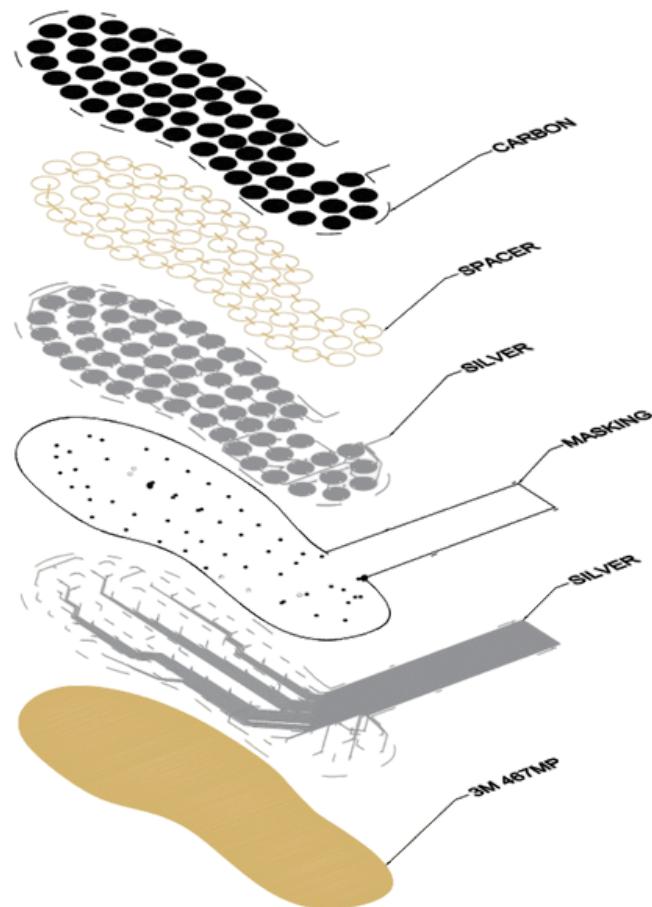
**Sequence - 4**

## FOOT PRESSURE INSOLE SENSOR

### ◆ Feature :

- Wide Force Sensing Range (5n to 450n)
- Detects Force, Pressure & Touch
- Thin, Lightweight & Flexible
- Able to withstand extreme temperatures and conditions
- Customizable to a wide range of applications
- Cost Effective Sensing Solutions

### ◆ Exploded View :



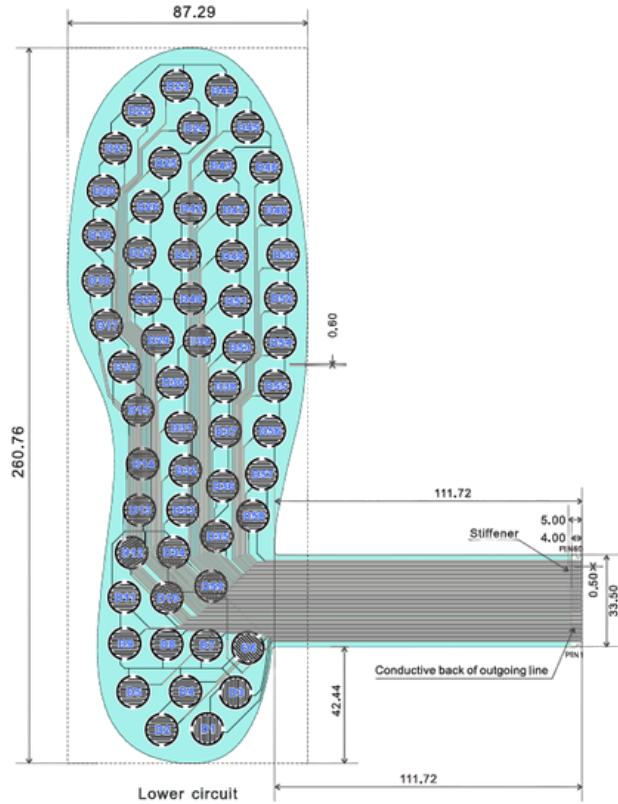
## FOOT PRESSURE INSOLE SENSOR

### General Information :

| Property                        | Value                            |
|---------------------------------|----------------------------------|
| <b>Technology</b>               | FSR                              |
| <b>Number of sensing points</b> | 59 points                        |
| <b>Sensing Area</b>             | 13 mm                            |
| <b>Carbon resistance range</b>  | 3 to 4 M ohms                    |
| <b>Weight range</b>             | 400gm TO 50kg                    |
| <b>Conductive Paste</b>         | Silver and Carbon                |
| <b>Overall Thickness</b>        | 0.385mm                          |
| <b>Material Type</b>            | (PET) Polyester durable material |
| <b>Dimension</b>                | 87.29mm x 260.76mm               |
| <b>Durability</b>               | >100K times                      |
| <b>Country of origin</b>        | India                            |
| <b>Response time</b>            | 1 Millisecond                    |
| <b>IP rating</b>                | IP67                             |
| <b>Operation temperature</b>    | -20°C +70 °C                     |
| <b>Pressure resolution</b>      | Continuous (Analog)              |

## FOOT PRESSURE INSOLE SENSOR

### ◆ Sensor Mechanical Data :



### ◆ Datasheet Graph :

