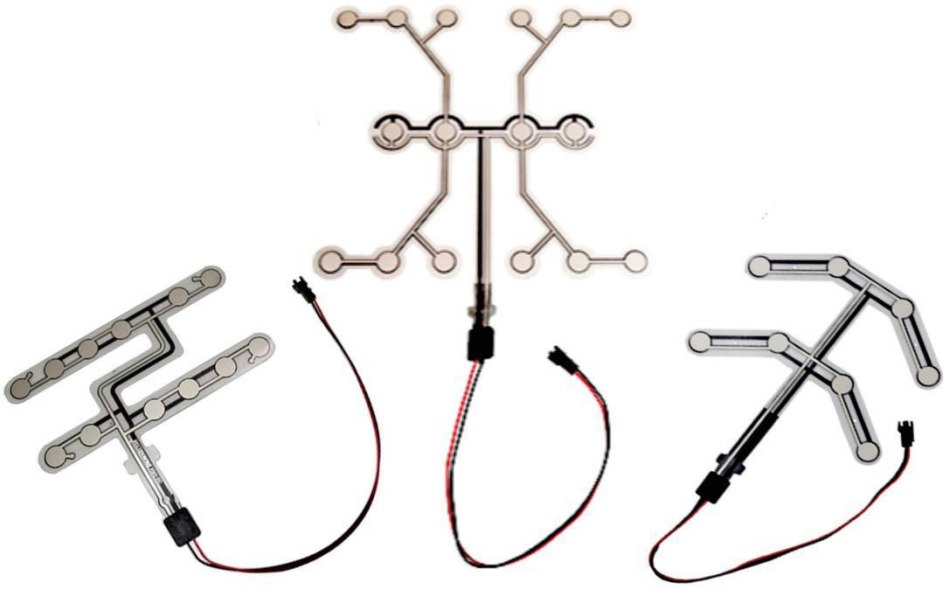
Seat Sensor Catalogue

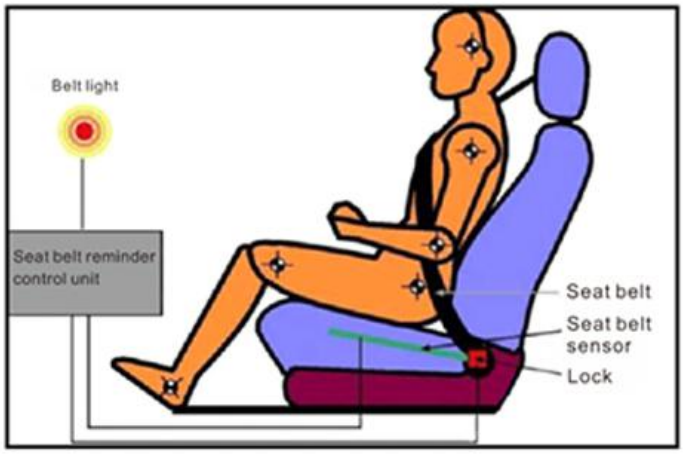


Nanjing Lirou Electronic Technology Co.,Ltd.
www.fsrtek.com

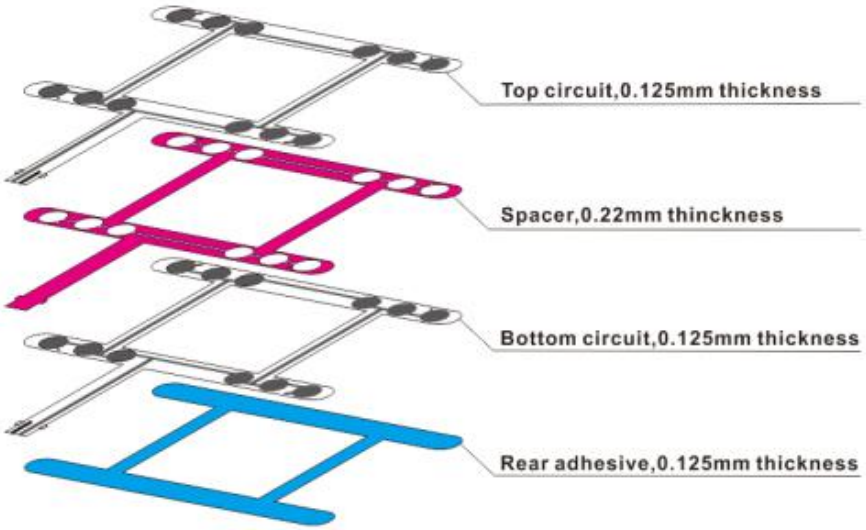
Product overview

The car seat sensor is a film type contact sensor in which the contacts of the sensor are evenly distributed on the force receiving surface of the seat, and a trigger signal is generated when the seat is subjected to pressure from the outside. Used in car seat occupant perception systems, such as seat belt alarm sensors,Taxi automatic meter, airbag sensing and driver departure. For example, with this device, it can sense if there is anyone in the seat, if there is no one, the airbag won't open.

System diagram



Product Structure



Installation

(1) Select sensors that fit the shape and size of the seat.Please note that the contact point of the sensor cannot be placed in the seat groove(See chart 1), otherwise the sensitivity and performance will be affected.

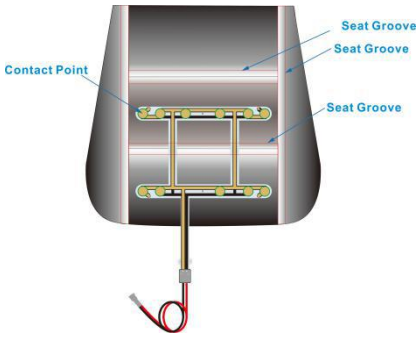


Chart 1

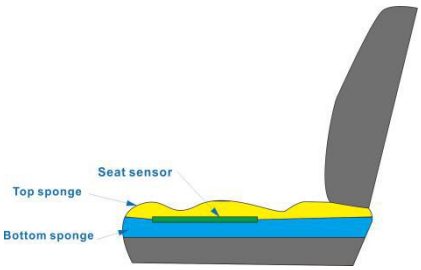


Chart 2

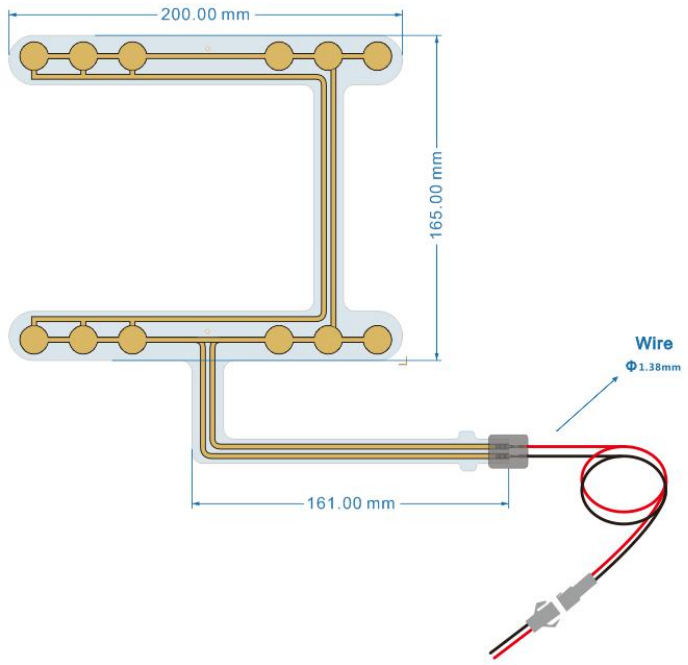
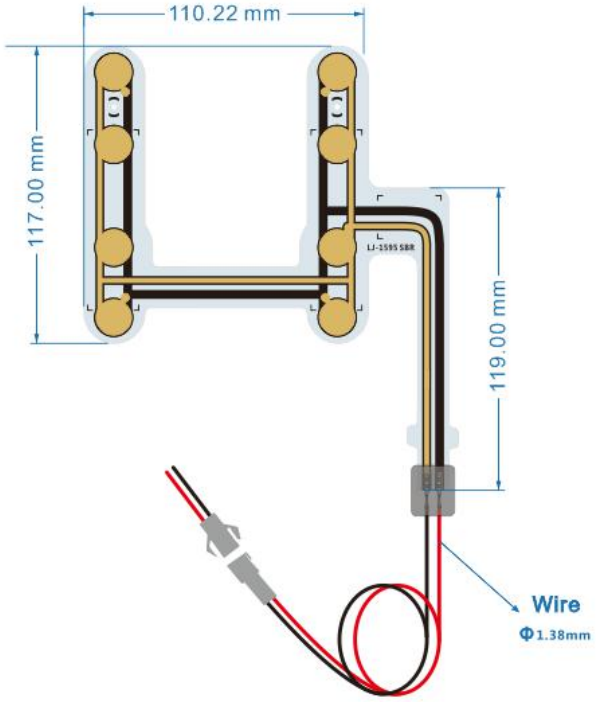
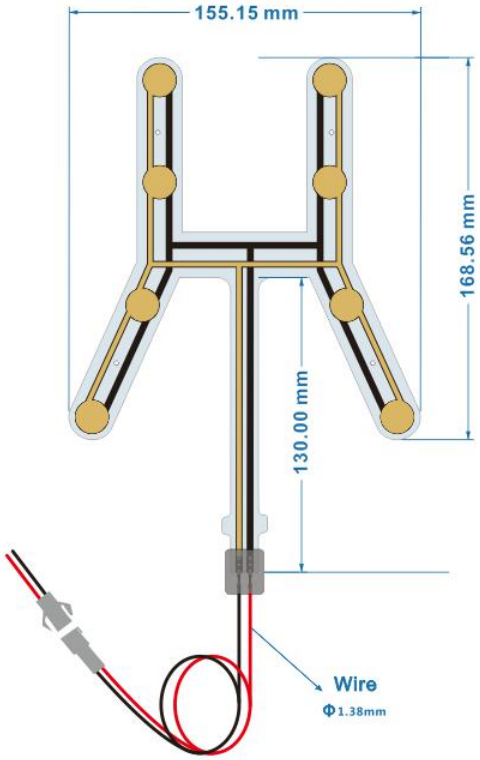
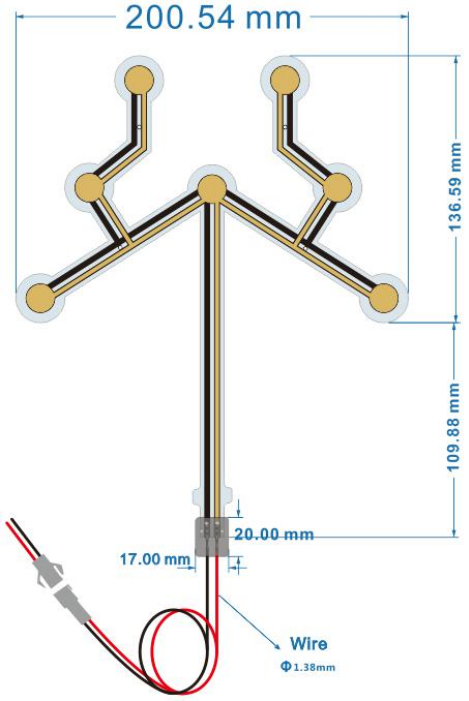
(2)Select the sensor suitable for the seat size, too big sensor cannot be installed, too small sensor will have a blind area.

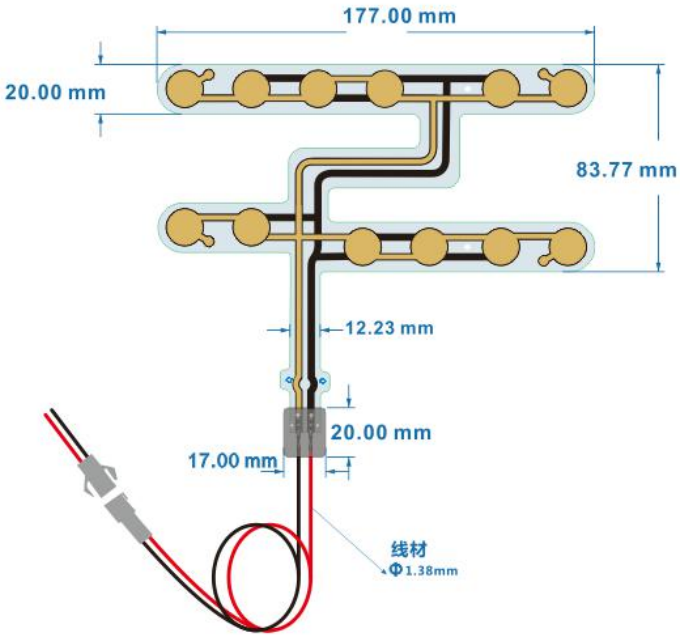
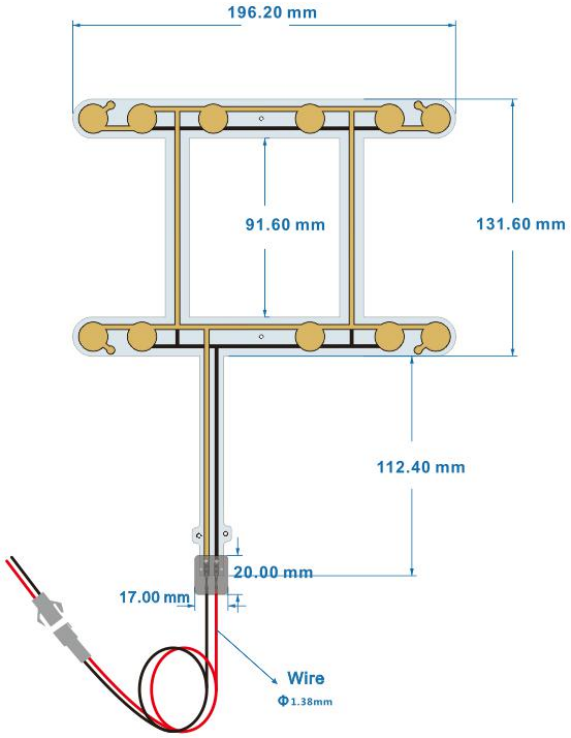
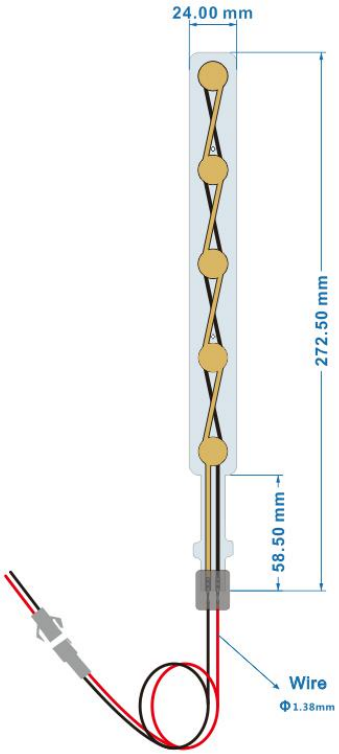
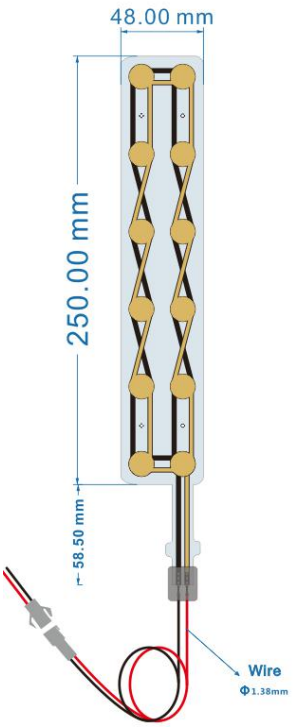
(3)The thickness and hardness of the sponge above the sensor have a great influence on the sensitivity of the sensor(Sea Chart2).The best thickness of sponge is suitable for 2-3cm. The sponge should be medium hardness.The hardness of the surface under the sensor also has a great influence on the sensitivity of the sensor.The best trigger force and sensitivity can be achieved by adjusting the thickness and hardness of the sponge.

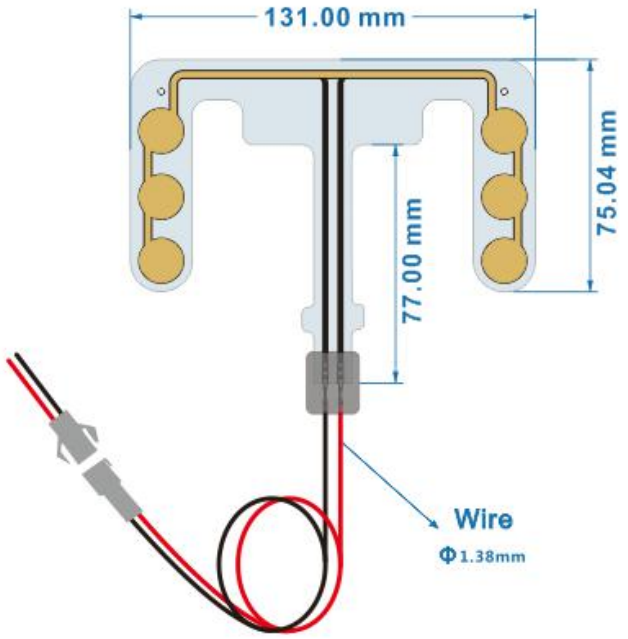
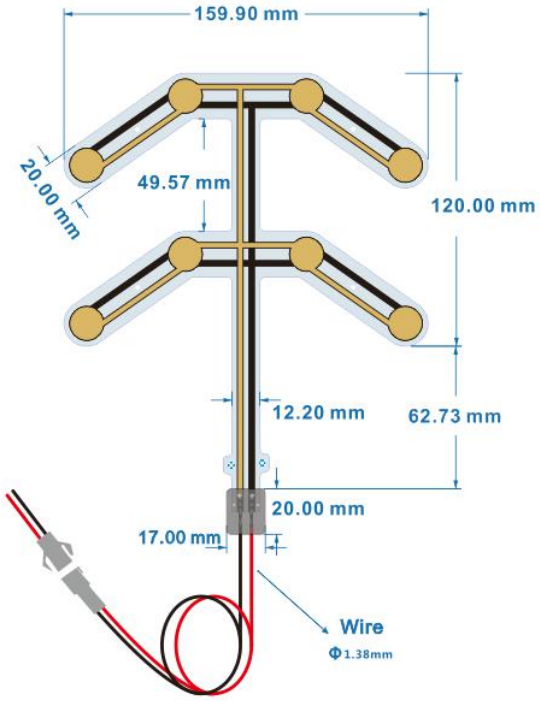
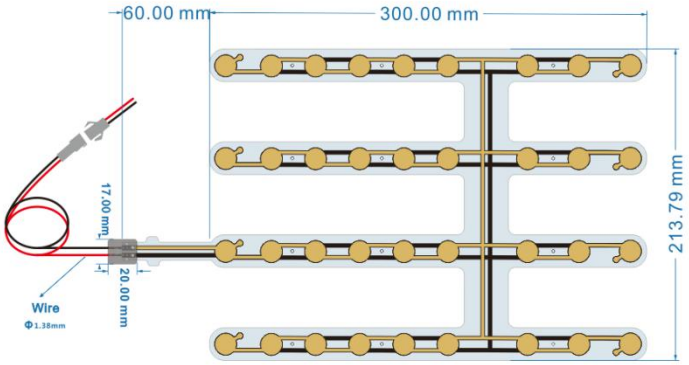
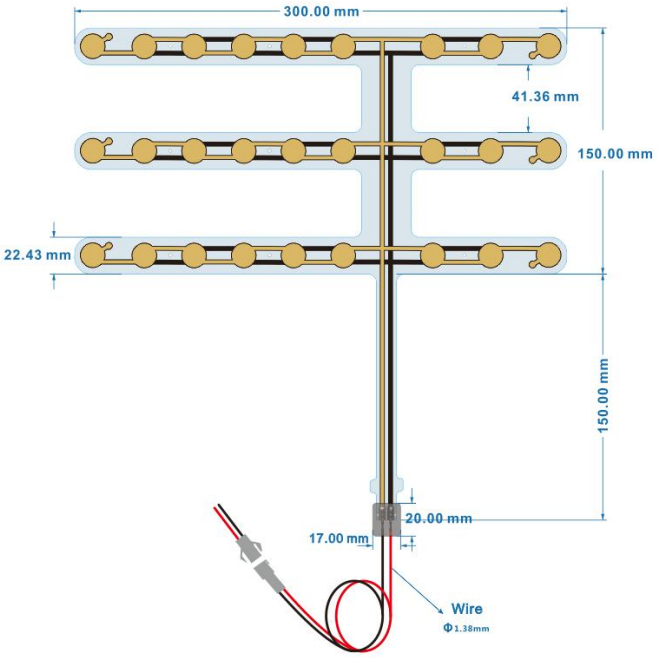
Specification

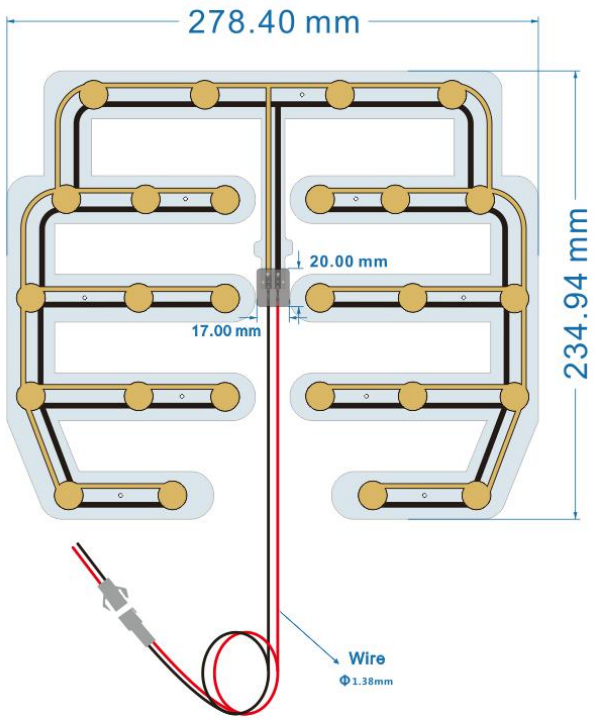
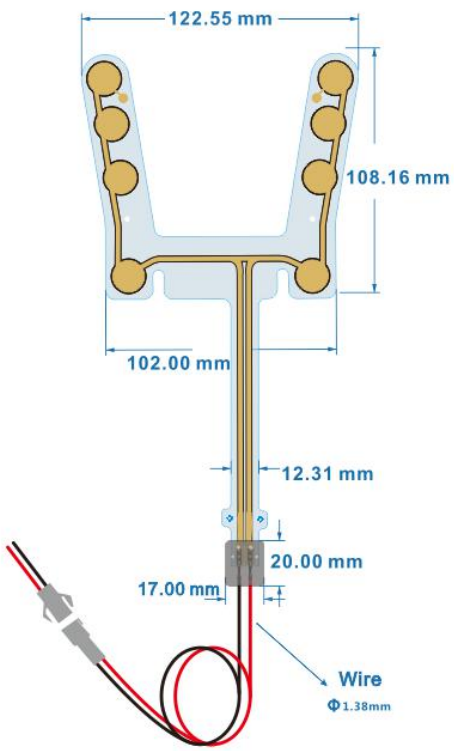
Size	Customized	**Working temperature**	-30~80℃
Single point working weight	150g~180g	**Insulation impedance**	20MΩ
Trigger weight	30~ ∞ kg	**Static resistance**	>10MΩ
Working voltage	< 50DC	**Trigger resistance**	0-150Ω
Working current	<100mA	**Durability**	>1000K times
Response time	10 ms		

Standard Product

F-1543(200*165mm)	F-1595 (110.22*117mm)
	
F-1354(168.56*155.15mm)	F-1631(200.54*136.59mm)
	

F-1491(83.77*177mm)	F-1425 (196.2*131.6mm)
	
F-1521(272.5*24mm)	F-1685(250*48mm)
	

F-1536 (131*75.04mm)	F-1421(159.9*120mm)
	
F-1629(300*213.79mm)	F-1365 (300*150mm)
	

F-1676 (278.4*234.94mm)	F-1358(122.55*108.16mm)
	

Optional Connector

BS01	BS02	BS03	BS04	BS05	BS06
					

Custom-made

We accept orders for custom seat sensors. If you need to customize production of seat sensors according to your needs, please let us know the information as below:

(1) working size and shape of the sensor
(2) trigger weight
(3) lead length
(4) connector type

If you have any application requirements, please contact our engineers and we will provide you with the most suitable solution