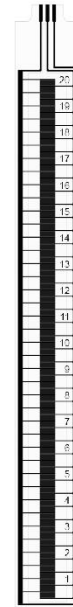


**LEVEL DETECTION SENSOR  
FLUID  
SHUNT Mode**

**FLX1S**  
Datasheet

**Features**

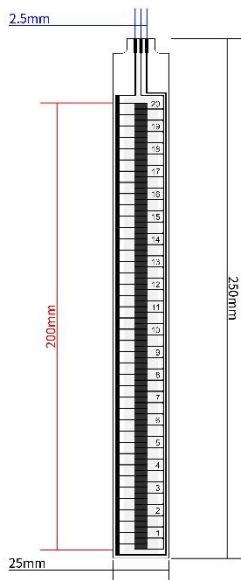
- Fluid immersed level sensing
- Detecting liquid, powders, grains
- Flexible and lightweight
- Ultra-thin
- Instant responding sensitivity
- Contamination free
- Low power consumption
- Easy to integrate
- 3 terminal calibration



**FLX1S**  
Fluid level sensor - Shunt mode



**Technical specifications**



Technical dimension

**FLX1S**  
Fluid level sensor - Shunt mode



Sensor	FLX1S
Length	250mm
Width	25mm
Active area	200mm
Pin spacing	2.5mm
Nominal thickness	0.58mm
Substrate	PET
Sensor style	Open
Connector	3-pin male solder tabs
Thickness	0.73mm
Width	1.6mm

**Note:** Ceradex offer customize sensor solution for application-specific integration. Including the sensor’s dimension, single-zone or multi-zone sensing area, connector options, waterproofs, humidity tolerance, and heat tolerance. Contact us for more information.

## Characteristics

Sensor type	Shunt mode
Position resolution	5mm
Actuation depth	≤ 12.5mm
Resistance output	30KΩ – 80KΩ
Resistance gradient	3KΩ ± 5 KΩ
Non-actuated resistance	> 10M Ω (Ohm)
Response time	< 40 ms
Operation temperature	-10°C - +60°C
Power rating	< 10mA / < 12V

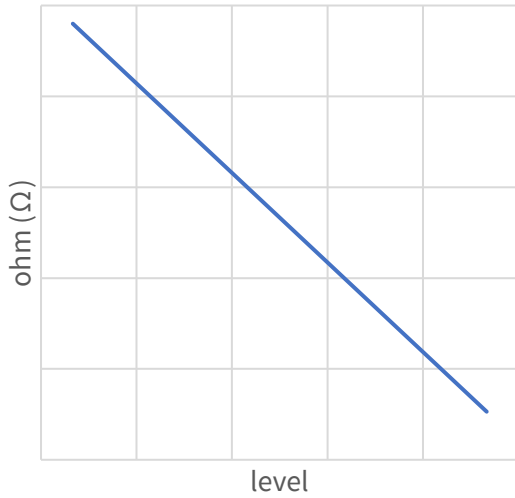
## Durability

Operating temperature performance		
Cold	-40°C/1hr	< 5%
Hot	+60°C/1hr	<15%
Storage temperature performance		
Cold	-40°C/1hr	< 10%
Hot	+60°C/1hr	<15%

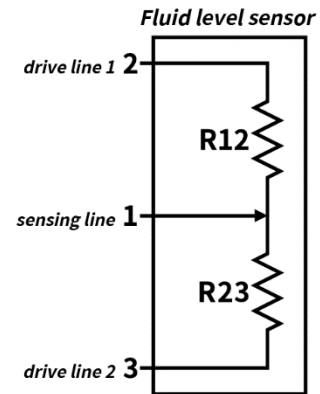
## Safety

Maximum driving power	< 240mW
Electromagnetic interference (EMI)	No
Electrostatic discharge (ESD)	No

**Response curve**



**Electrical layout**



**Note:** Position resolution, and actuation force can be modified in Ceradex’s customized sensor solution.

**Do not immerse over maximum sensing level**

**Applications**

Reservoir monitoring

Can be integrated within minimized fluid tank.

Contamination free

Can be used with industrial and edible substances.

Advance agriculture/aquaculture system

Water tank and pipeline monitoring and automation.