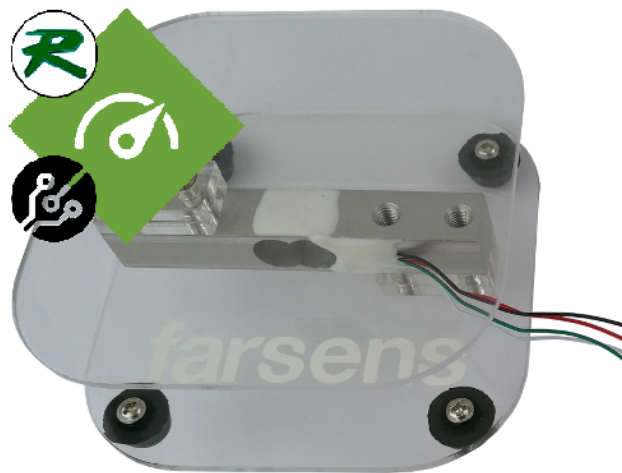

Electronic scale weighting sensor

Check for samples: [PB-WEIGHT-SCALE-01](#)



FEATURES

- Sensor Range 5 Kg
- Sensitivity 1 mv/v

DESCRIPTION

PB-WEIGHT-SCALE-01 is a scale that varies its resistance when applying pressure. This resistor is part of a wheatstone bridge, a simple circuit for measuring an unknown resistance by connecting it so as to form a quadrilateral with three known resistances

and applying a voltage between a pair of opposite corners. The sensors output value will then be a voltage difference between the two differential cables. The sensor is well suited to be used with Farsens tag ZYGOS-RM.

REFERENCE WIRING

- Red: power supply +
- Black: power supply -
- White: differential -
- Green: differential +

CHARACTERISTICS

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNIT |
|-----------|--------------------------------|------------------|-------|-------|-------------|
| C_{err} | Comprehensive error: | | 0.05% | | FS |
| $Sens$ | Sensitivity | 0.9 | 1.0 | 1.1 | mv/v |
| | Nonlinear | | 0.05% | | FS |
| | Repeatability | | 0.05% | | FS |
| | Hysteresis | | 0.05% | | FS |
| | Creep | | 0.05% | | FS / 3min |
| | Zero drift | | 0.05% | | FS / 1min |
| | Zero temperature drift | | 0.2% | | FS/10 °C |
| | Rated output temperature drift | | | 0.15% | FS/10 °C |
| | Zero output | | ±0.1 | | |
| | R_{in} | Input resistance | 950 | 1000 | 1050 |
| R_{out} | Output resistance | 950 | 1000 | 1050 | Ω |
| | Insulation resistance | 2000 | | | Ω (100 VDC) |
| | Recommended excitation voltage | -3 | | 12 | V |
| | Operating temperature range | -10 | | 50 | °C |
| | Overload | | 150 % | | FS |

REFERENCES

The next table shows the available references of the PB-WEIGHT-SCALE-01.

| Ref. | Name | Description |
|-------|--------------------|---|
| 97005 | PB-WEIGHT-SCALE-01 | Differential voltage weight scale probe |

MECHANICAL DIMENSIONS

All dimensions are in millimeters.

2D VIEW

