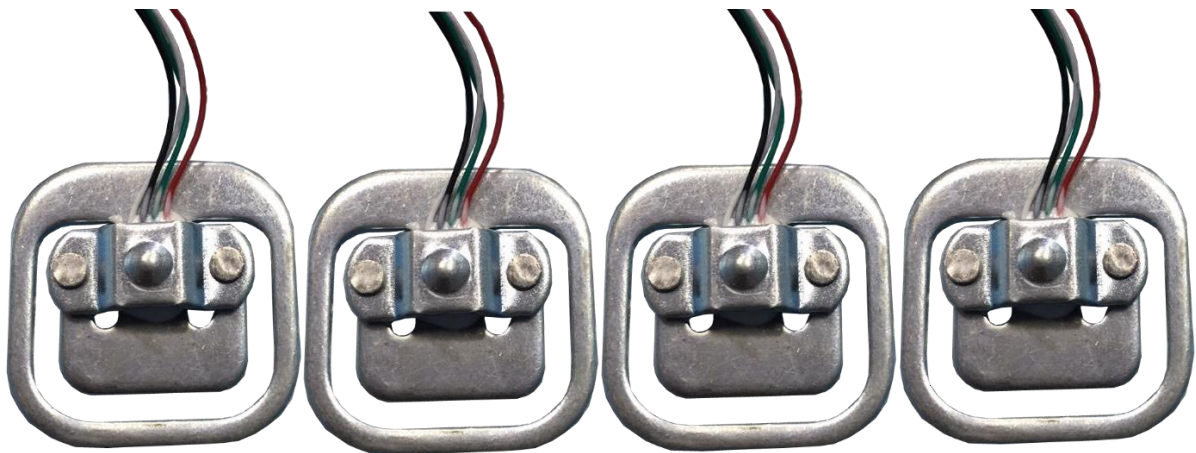# Type 2N-50kg Full-bridge Load Cell

Short description

CE IP65 RoHS

- Alloy steel bending miniature sensor
- To be used for on/off weight detection
- Full-bridge miniature sensor
- Sensors are delivered per set

Model

Capacity	Accuracy	Full article description
50kg	0.1%	2N-34x34x7.8-50kg-FB

Type 2N-50kg Full-bridge Load Cell

Detailed specifications 2N-50kg Full-bridge

Accuracy class	of FS	0.1%
Output sensitivity (= FS)	mV/V	2.0 ± 0.3
Maximum capacity (E_{max})	kg	50
Temperature effect on zero	%FS/10°C	≤ ± 0.1
Temperature effect on Sensitivity	%FS/10°C	≤ + 0.1
Minimum dead load	of E_{max}	0%
Safe overload	of E_{max}	150 %
Ultimate overload	of E_{max}	300%
Zero output	mV/V	± 0.5
Excitation, recommended voltage	VDC	1.5 ~ 10
Excitation maximum	VDC	12
Input resistance (per set)	Ω	1000 ± 10
Output resistance (per set)	Ω	1000 ± 10
Insulation resistance	MΩ	≥2000 (at 50VDC)
Compensated temperature	°C	0 ~+ 40
Operating temperature	°C	10 ~ + 70
Storage temperature	°C	-20 ~ + 70
Element material		Alloy steel
Creep	%FS/5 min	± 0.05
Non-linearity	%FS	± 0.3
Repeatability	%FS	± 0.1
Hysteresis	%FS	± 0.3

Please note: 4 miniature sensors used in one set.

Wiring

Wiring:
4 separate conductor cables.
Standard cables length: 0.405m ± 5mm.

4-wire Diagram
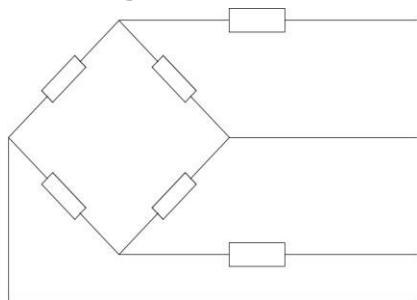
Input(+)	Red
Output(-)	White
Input (-)	Black
Output(+)	Green

Type 2N-50kg Full-bridge Load Cell

Dimensions in mm

34±0.1

305±5

red white green black

<1

<5.7

7.8±0.2

34±0.1