



## Short Description



- Aluminium bending miniature sensor
- High accuracy
- Recommended for portable scales

## Available Models

Capacity	Accuracy	Full Article Description
5kg	0.03%	1B-S-5kg
6kg	0.03%	1B-S-6kg
10kg	0.03%	1B-S-10kg
12kg	0.03%	1B-S-12kg
15kg	0.03%	1B-S-15kg
20kg	0.03%	1B-S-20kg
50kg	0.03%	1B-S-50kg
70kg	0.03%	1B-S-70kg

## Technical Specifications 1B-S

Accuracy Class	%FS	0.03		
Output Sensitivity ( = FS )	mV/V	1.8 ± 0.18		
Maximum Capacity ( E <sub>max</sub> )	kg	5, 6, 10, 12, 15, 20, 50, 70		
Creep Error (5 minutes)	%FS	≤± 0.03		
Non-Linearity	%FS	±0.02		
Repeatability	%FS	±0.02		
Hysteresis	%FS	±0.03		
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.3		
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.03		
Zero Balance	mV/V	≤± 0.1		
Safe Overload	%FS	150		
Ultimate Overload	%FS	300		
Maximum Deflection	mm	5 – 20kg: 0.1 ~ 0.2	50kg : ~0.5	70kg : ~0.8
Excitation, Recommended Voltage	V <sub>DC</sub>	5 ~ 9		
Excitation, Maximum Voltage	V <sub>DC</sub>	10		
Input Resistance	Ω	1055 ± 10		
Output Resistance	Ω	1000 ± 5		
Insulation Resistance (50V <sub>DC</sub> )	MΩ	≥3000		
Operating Temperature	°C	-10 ~ + 40		
Storage Temperature	°C	-20 ~ + 65		
Load Cell Weight	kg	0.02		
Element Material		Aluminium		
Ingress Protection (acc. to EN 60529)		IP65		
Recommended Torque on Fixation Bolts	Nm	M3: 1.0	M4: 2.3	

## Wiring

### Features:

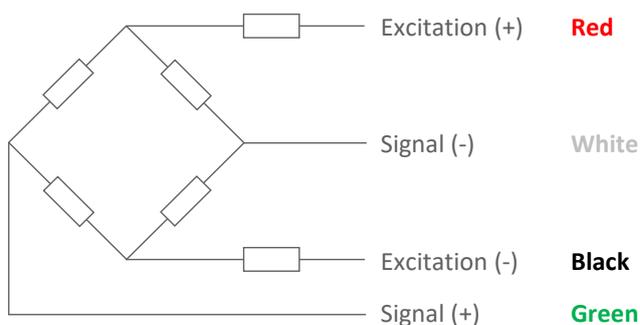
Cable type: 4 separate conductor cables, unshielded, conductor AWG 30

Cable diameter: 0.9mm (per conductor)

Cable length: L = 0.198m ± 0.005m

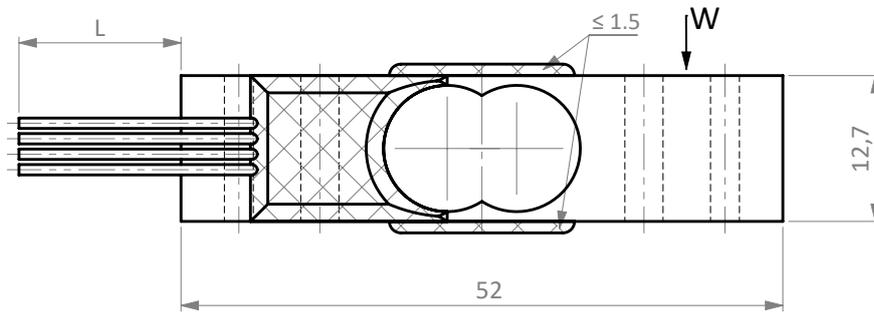
Cable jacket: PVC

### 4-Wire Connection Diagram

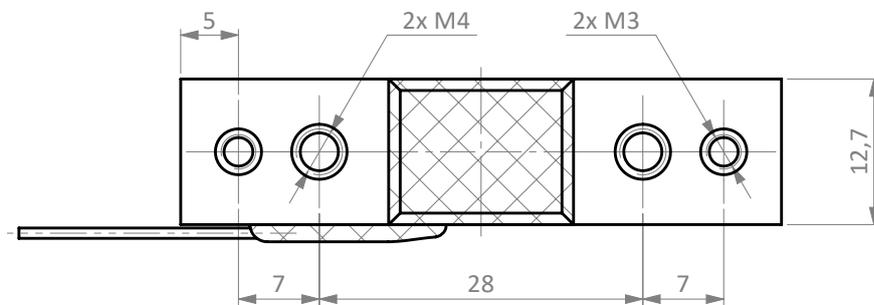


## Dimensions in mm

### Front View



### Top View



### Isometric View

