

Type SPS-03 Load Cell



Short Description

- Aluminium bending miniature sensor
- High accuracy
- Used for Electronic balances

Available Models

P/N	Capacity	Accuracy	Full Article Description
72202512-1	300g	0.02%	SPS-03-300g-0.40B
72202512-2	600g	0.02%	SPS-03-600g-0.40B
72202512-3	1000g	0.02%	SPS-03-1000g-0.40B
72202512-4	1500g	0.02%	SPS-03-1500g-0.40B
72202512-5	2000g	0.02%	SPS-03-2000g-0.40B
72202512-6	3000g	0.02%	SPS-03-3000g-0.40B

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Technical Specifications SPS-03

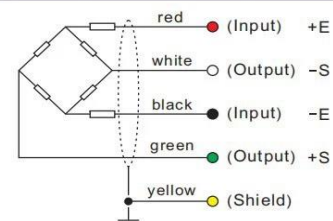
Accuracy Class		0.02%
Output Sensitivity (= FS)	mV/V	1.2 ± 0.1
Maximum Capacity (Emax)	kg	0.3,0.6,1,1.5,2,3
Combined Error	%FS	≤± 0.02
Creep Error (5 minutes)	%FS	≤± 0.02
Non-Linearity	%FS	±0.02
Repeatability	%FS	±0.02
Hysteresis	%FS	±0.02
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.2
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.03
Zero Balance	mV/V	≤± 0.05
Safe Overload	%FS	150
Ultimate Overload	%FS	300
Maximum Deflection	mm	0.22
Excitation, Recommended Voltage	V	5 ~ 9
Excitation, Maximum Voltage	V	10
Input Resistance	Ω	405 ± 10
Output Resistance	Ω	350 ± 5
Insulation Resistance (50V)	MΩ	≥2000
Compensated Temperature	°C	-10 ~ + 40
Operating Temperature	°C	-10 ~ + 40
Storage Temperature	°C	-20 ~ + 65
Load Cell Weight	kg	0.045
Element Material		Aluminium
Ingress Protection (acc. to EN 60529)		IP65
Recommended Torque on Fixation Bolts	Nm	M4: 1

Wiring

Features:

Cable type: 4 separate conductor cable , conductor AWG 30
Cable diameter: Ø 0.9mm
Cable length: L= 0.25m
Cable jacket: PVC

Mode of Connection



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Dimensions in mm

