

Main Features:

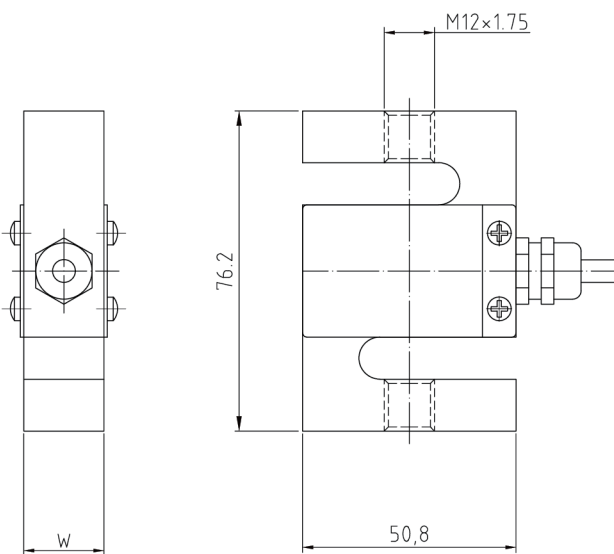
- Material: Alloy steel (thread)
- Rated Capacity: 1KN~10KN
- Calibrated based on criterion of ISO 376
- IP Rating: IP66
- Suitable for force measurement and overloading safety controlling.
- High precision by ISO 376 class 0.5, 1, 2.



Product description:

S515 is a square-shaped tension & compression load cell, high-quality silica gel potting is to ensure it can work in harsh environment. Available in a wide range of capacities from 1KN to 10KN

Dimensions (mm&inch):



Cable Colour Code

Red	+Excitation
Black	-Excitation
Green	+Signal
White	-Signal
Yellow	Shield

Shield connected to load cell body

Rated Cap.	1kN	2kN	5kN	10kN
kN/mm				
W	19.1	19.1	19.1	25.4

S515 S-type Load Cell Specifications

Parameter		Units	Specifications	
Model No.			S515A	
Rated capacity (E _{max})		kN	1 / 2 / 5 / 10	
Accuracy class ¹⁾²⁾			0.5	00
Min. dead load		N	0	
Rated output		mV/V	3.0 ± 0.003	
Zero balance		% of E _{max}	± 1	
Repeatability error		% of AL ³⁾	< ± 0.010	< ± 0.006
Creep; 30 minute		% of AL	< ± 0.017	< ± 0.010
Min. dead load output return (DR); 30 min		% of AL	< ± 0.017	< ± 0.010
Temp. effect on	Min. dead load output	% of E _{max} /°C	< ± 0.0020	< ± 0.0014
	Rated output ²⁾	% of AL/°C	< ± 0.0012	< ± 0.0007
Temperature range	Compensated		-10 to +40 [+14 to +104]	
	Operating	°C(°F)	-40 to +65 [-40 to +149]	
	Safe storage		-40 to +80 [-40 to +176]	
Excitation voltage	Recommended	V AC/DC	5 ~ 15	
	Maximum		15	
Terminal resistance	Excitation	Ω	384 ± 5	
	Output		350 ± 3	
Insulation resistance @50VDC		MΩ	> 5000	
Breakdown voltage		V AC	> 500	
Seal type / IP rating			Silicon rubber / IP66	
Load limit	Safe	% of E _{max}	140	
	Ultimate		200	
Material	Spring element		Alloy steel nickel plated	
	Cable		Φ5.6; 4-wire; PVC	
Cable length		m	5.0	
Weight; approx		kg	1-5 kN	10 klb
			0.8	1.0
Fatigue life		cycles @E _{max}	> 1,000,000	
Deflection at E _{max} ; approx		mm	< 1.0	
Barometric pressure effect on Zero Output		Vmin/kPa	< 1.0	

Notes:

¹⁾ Error due to the combined effect of non-linearity and hysteresis

²⁾ The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

³⁾ AL = Applied Load