













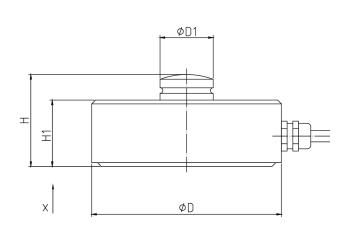
Main Features:

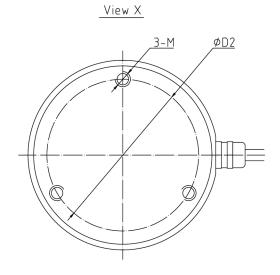
- Material: Stainless steel
- Rated Capacities: 1t~100t
- OIML R60, NTEP HB44, CPA, CE and RoHS certified
- IP Rating: IP68, IP69K
- Suitable for process weighing of hopper scales, silo scales, tank scales
- High precision by OIML R60 C5, high reliability

Product description:

R510S is a low-profile compression load cell, it is compact and high precision. It is widely suitable for applications in the food and chemicals industry, it is with smooth electro-polished surfaces so that it is easy to be cleaned, and is ideally suited to weighing applications in clean-in-place/sterilize-in-place environments. Full stainless steel constructure, completely hermetically sealed by laser. Also it is designed with mandrel with self-aligning arc point to receive force vertically to ensure the high force accuracy.

Dimensions (mm&inch):





Rated Capacity	ΦD	ØD1	ØD2	Н	H1	М
						_
0.5†-10†	82	22	65	44	32	M6×1.0
15t-20t	100	28	80	48.5	35	M8×1.25
30t	126	35	-	54	40	-
50t-100t	165	60	-	80	60	-

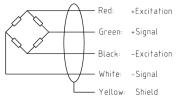


R510S Compression Type Load Cell Specifications

Patameter		Units	Specifications					
Model No.			R510S					
Rated capacity (Emax)		t	1 / 2.5 / 5 / 10 / 15 / 20 / 30 / 50 / 100					
Accruacy class 1)2)				C3	C5			
Min. dead load		kg	0					
Rated output		mV/V	2.0 ± 0.004					
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		< ± 0.0018	< ± 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 A C/DC	5 ~ 15					
	Maximum	V AC/DC	15					
	Excitation	Ω	766 ± 10					
Terminal resistance	Output	Ω	700 ± 3					
Insulation resistance @50VDC		ΜΩ	>5000					
Breakdown voltage		V AC	> 500					
Seal type / IP rating			Hermetically welded / IP68 IP69k					
Load limit ———	Safe	% of E _{max}	150					
	Ultimate	70 OI Emax	300					
Material	Spring element		Stainless steel					
	Strain gauge		PEEK					
	Cable		Ф6; 4-wire; PVC					
Cable length		m	1-10t		15-100t			
			6.0		12.0			
Weight; approx		kg	1-10t	15-20t	30t	50-100t		
			1.5	2.0	3.5	7.0		
Fatigue life		cycles @Emax	> 1,000,000					
Deflection at Emax; approx		mm	< 0.5					
Barometric pressure effect on Zero Output		Vmin/kPa	<1.0					

Notes:

Cable Colour Code: (4-wire circuit)



Shield connected to load cell body

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

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

³⁾ AL = Applied Load