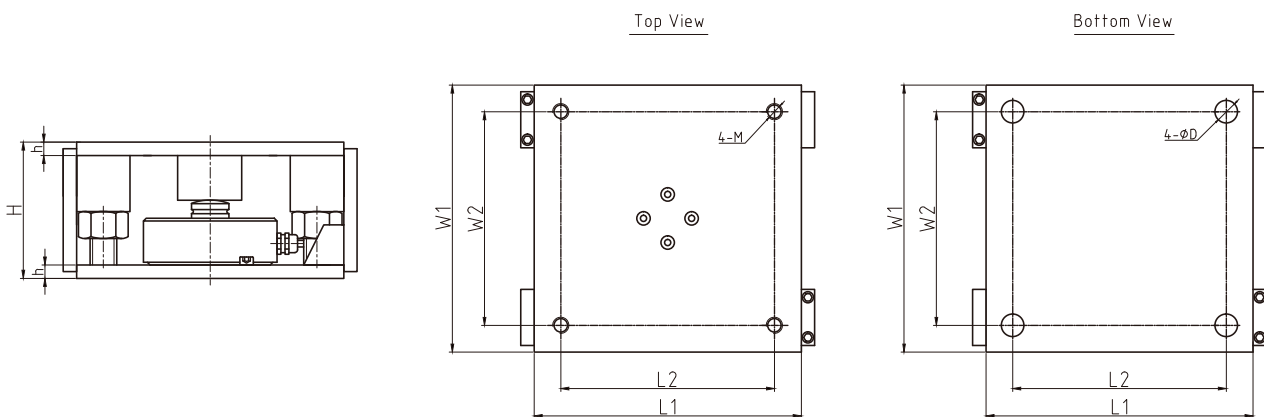# RUNNINGTEC·H

Key feature:

- Low-profile.
- Upper plate with blind hole to be loaded.
- Adjustable height screw against overload and overturn.
- Capacity: 2.5t-20t
- Material: stainless steel
- Assembled with compression load cell R510S.

Product description:

Weigh module of M-R510S-1S is designed for dynamic weighing system, such as mixed hopper, silo, vessel and tank weighing systems. Capacity is from 2.5t to 20t. The MR510-1S Series kit is ideally suited for installation in limit space.

Dimensions (in mm& lb):

Top View

Bottom View

Rated Capacity	L1	L2	W1	W2	H	h	D	M
t/mm								
2.5t-10t	175	115	150	115	95	10	14	M12×1.75
15t-20t	200	160	200	160	102	10	17	M12×1.75

M-R510S-1S Weighing Module Specifications

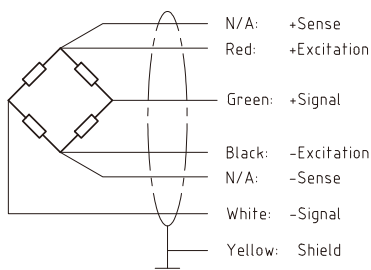| Parameter		Units	Specification
Model No.			M-R510S-1S
Load Cell			R510S
Rated capacity (Emax)		t	2.5t; 5t; 10t; 15t; 20t
Rated output		mV/V	$2.0 \pm 0.1\%$
Combined error [1)2)]		% of Emax	$< \pm 0.05$
Repeatability error		% of AL [3)]	$< \pm 0.02$
Creep; 30 minute		% of AL	$< \pm 0.03$
Min. dead load output return (DR); 30 min		% of AL	$< \pm 0.03$
Temp. effect on	Min. dead load output	% of Emax/°C	$< \pm 0.002$
	Rated output [2)]	% of AL/°C	$< \pm 0.002$
Temperature range	Compensated	°C(°F)	-10 to +40 [+14 to +104]
	Operating		-30 to +65 [-22 to +149]
	Safe storage		-40 to +80 [-40 to +176]
Excitation voltage	Recommended	V AC/DC	5 ~ 15
	Maximum		20
Terminal resistance	Excitation	Ω	760 ± 10
	Output		700 ± 3
Insulation resistance @50VDC		MΩ	>5000
Breakdown voltage		V AC	>500
Seal type / IP rating			Hermetically welded / IP68
Load limit	Safe	% of Emax	150
	Ultimate		300
Cable length		m	6.0

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

Cable Colour Code: 4-wire [Optional: 6-wire]

N/A: +Sense
Red: +Excitation

Green: +Signal

Black: -Excitation
N/A: -Sense

White: -Signal

Yellow: Shield

Shield connected to load cell body