

This load cell is a hermetically sealed, stainless steel digital weigh module using a rocker pin design with uplift protection. With optional lateral/anti-sway protection, it is an ideal high speed and accurate solution for weighing tanks, bins and hoppers and wash down applications.



FEATURES

- Capacity 10kg to 200kg
- Stainless steel construction
- Environmental protection IP69
- Hermetically sealed
- Designed for easy installation
- Low profile design
- Optional anti-sway design feature
- Digital load cell enabling high speed and accurate weighing

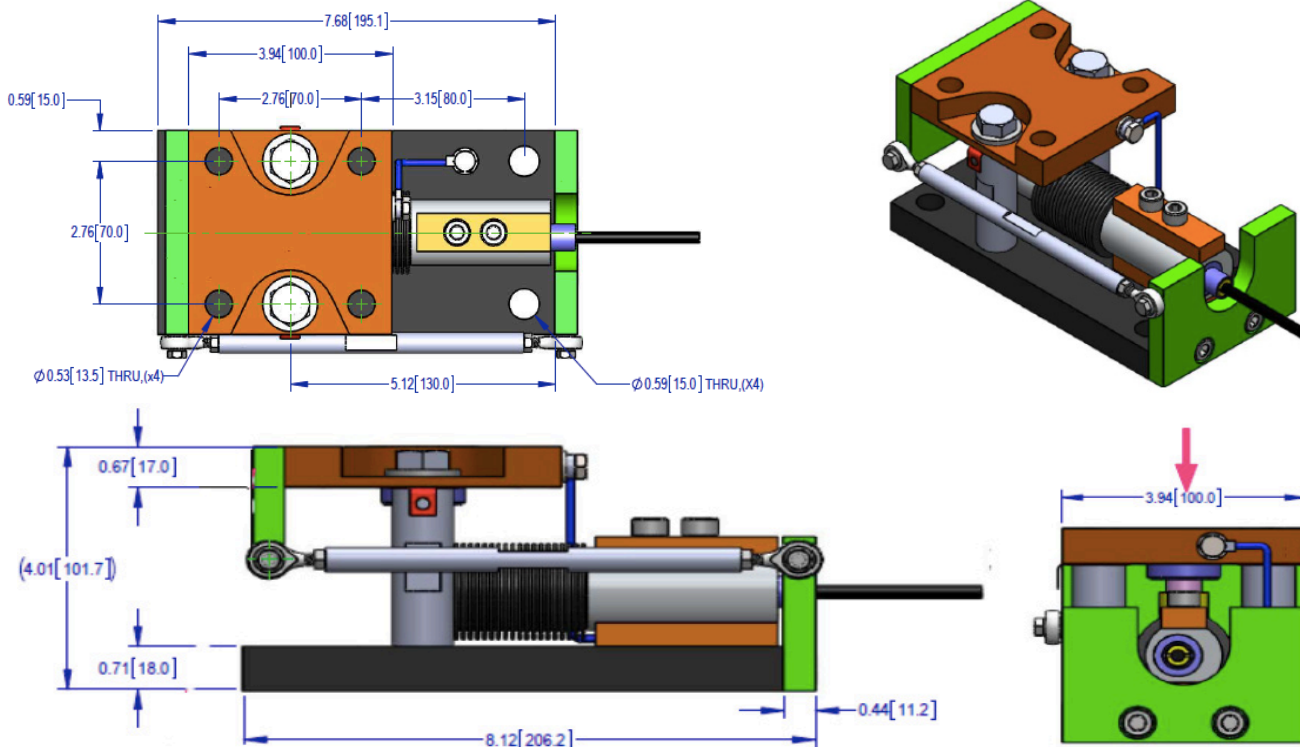
APPLICATIONS

- Hopper
- Mixer
- Platform scales
- Washdown applications

OPTIONS

- Check link anti-sway protection

OUTLINE DIMENSIONS



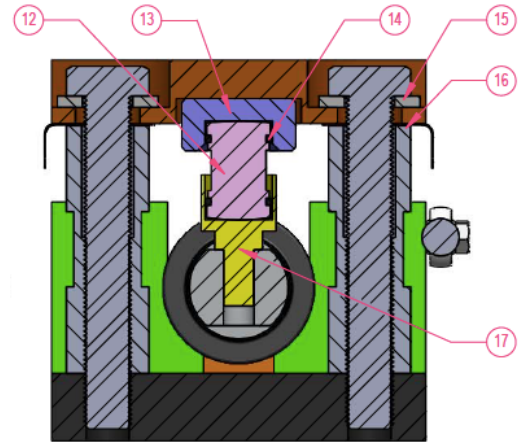
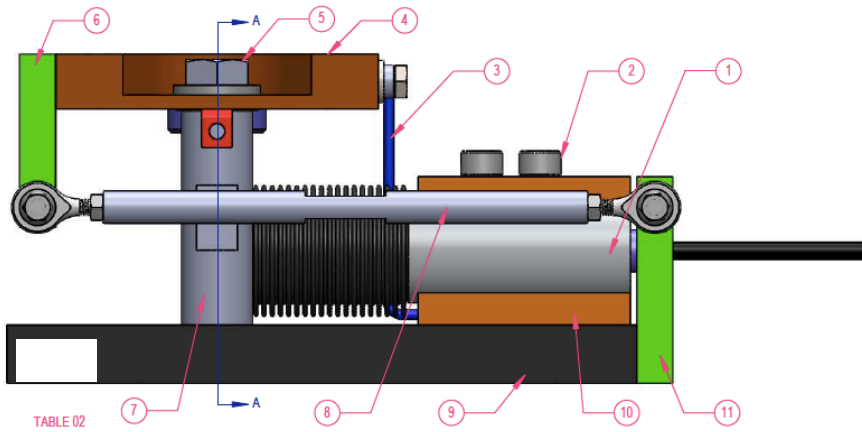


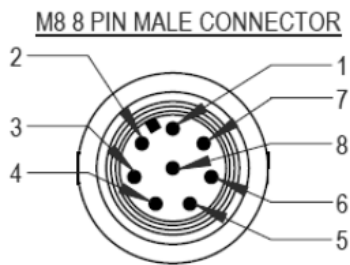
Table No. 2

Item No	Drawing No	Description	Material	Quantity
1	210809	ZNSHD Load Cell	Stainless Steel	1
2	91292A209	18-8 SS Socket Head Screw M8x1.25x60	Stainless Steel	2
3	XXXXXX	Grounding Cable	XXXX	1
4	208363	Top Plate	Stainless Steel/Mild Steel	1
5	92800A410	18-8 SS Hex Head Screw 1/2-20x3.0 (uplift bold)	Stainless Steel	2
6	210286	Top Part	Stainless Steel/Mild Steel	1
7	XXXXXX	Circular Stand-off (Jam Nut)	Stainless Steel/Mild Steel	2
8	210287	Check Link	Stainless Steel/Mild Steel	1
9	210285	Bottom Plate	Stainless Steel/Mild Steel	1
10	210274	Spacer	Stainless Steel/Mild Steel	2
11	210284	Bottom Part	Stainless Steel/Mild Steel	1
12	204525	Rocker Pin	Stainless Steel	1
13	204526	Load Cup 1	Stainless Steel	1
14	XXXXXX	O-Ring	Rubber	2
15	98023A033	1/2 Flat Washer	Stainless Steel	2
16	210103	Shipping Installing Stopper	Mild Steel	2
17	XXXXXX	Load Cup 2	Stainless Steel	1

SPECIFICATIONS

Model	ZNSHDWM	
Capacity	kg	10, 20, 50, 100, 200
PERFORMANCES		
Combined error	%FS	$\leq \pm 0.03$
Creep error (30min)	%FS	$\leq \pm 0.03$
Zero balance, raw counts	increments	± 2000
Output resolution at full load, raw counts	increments	512000
Internal AD conversion rate	upd./sec	1200
Fix, digital low pass IIR filter, default	Hz	18 (Supress 50Hz and 60Hz influence)
Adjustable, digital low pass IIR filter	Hz	18-0.25; Selectable in 8 steps
Adjustable, digital low pass FIR filter		40-5; Selectable in 8 steps
Adjustable, external output update rate	upd./sec	1200-9; Selectable in 8 steps
GENERAL I/O's		
Hardware interface, CAN version		CAN and RS232
Hardware interface, RS version		RS485 and RS422 (Both four wire)
Data transmission rates CAN	kb	125; 250; 500; 1000
Data transm. rates RS485/RS422/RS232		9,6;19.2;38.4;57.6;115.2;230.4;460.8
Protocol CAN		CANopen ASCII or Modbus RTU
Protocol RS485/RS422/RSRS232		
Logical input programmable		Trigger level 2-30Vdc, <3mA Ref to Gnd
Power supply	VDC	+10 - 30 ≤ 0.4 Watt
INFLUENCES		
Safe load limit	%*E _{max}	150
Ultimate load	%*E _{max}	200
Temperature effect on zero	%FS/10°C	0.04
Temperature effect on span	%FS/10°C	0.04
Temperature range	°C	Operating: -10/ +40
EMC performance		MID class E2 (industrial locations)
I/O protection, all pins		Reversed polarity: Excess voltage and surge
Isolation body/Electronics at 500 VDC	G Ω	≥ 1
Vibration		2.5G operational, 5G non-operational
Environmental protection per IEC 529		IP69
Corrosion resistance		All stainless steel

WIRING GRAPHIC



Pin No	RS-232 + CAN	RS-485 + RS-422
1	GND1	GND1
2	Program	Program
3	CANH	Rx+
4	Trigger Input	Trigger Input
5	CANL	Rx-
6	RxD	Tx-
7	TxD	Tx+
8	PWR+	PWR+

PART NUMBER

Capacity (kg)	Capacity in Newtons	Option	Communication Interface	Part No.
10	100	GEN	RS-232+CAN	1000WM55-000-00
		A	RS-485+RS-422	1000WM55-000-01
20	200	GEN	RS-232+CAN	1000WM55-001-00
		A	RS-485+RS-422	1000WM55-001-01
50	500	GEN	RS-232+CAN	1000WM55-002-00
		A	RS-485+RS-422	1000WM55-002-01
100	1000	GEN	RS-232+CAN	1000WM55-003-00
		A	RS-485+RS-422	1000WM55-003-01
200	2000	GEN	RS-232+CAN	1000WM55-004-00
		A	RS-485+RS-422	1000WM55-004-01