



**NINGBO MAKEN ELECTRIC CO., LTD.**  
**NINGBO MAKEN IMPORT&EXPORT CO., LTD.**

# COMPANY PROFILE

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Ningbo Maken Electric Co.,Ltd. which focus on designing, producing and selling weighing load cells and Auto control system. Its plant covers 12,000 square meters, and there are whole complete equipments for producing and testing Its working condition is very nice and R&D ability is strong, We Maken with the annual producing capacity more than 500,000 pieces or sets, and more than 70% are sold abroad.

We Maken already passed the approval of ISO9001, OIML, CE and Anti-explosion till now, and gain the many patents and certificates on weighing field, and meantime established and completed the management system like OA and ERP, We Maken also has a sales net almost covered all of China and most of major countries in abroad.



We Maken not only producing but also focus on supplying for technical solution and superior service., We Maken steps forward through improve existed old items, develop new products and meantime focus on superior advance products into Modular, digital, intelligent. Especially, we successfully develop first weighing system or load cells connected to mobile phone with functions like remote wireless control, management and updates etc. We strong believe this kind of system and load cells will be become the most popular new generation intelligent product with the development of the mobile phones and applying of 3G service in the near future.

Every feature of Maken is the point why you choice our products and/or services.

Our advantages:

- ~Innovation, advanced design and production technics
- ~Special making for customer special requirements
- ~Supply nice services for developing, designing, producing and selling

We Maken believe that every feature of Maken is the point why you choice our products and/or services.



# QUALIFICATION CERTIFICATES



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CERTIFICATE



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制造计量器具许可证  
MC



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# PATENT CERTIFICATES



实用新型专利证书



实用新型专利证书



外观设计专利证书



外观设计专利证书

# PRODUCT CERTIFICATES



国际法制计量组织  
计量器具型式合格证书



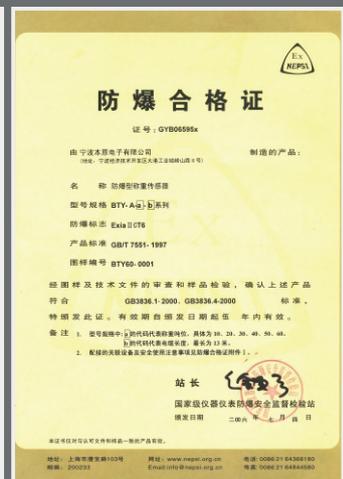
DECLARATION OF Conformity  
Order No. MTE0007000



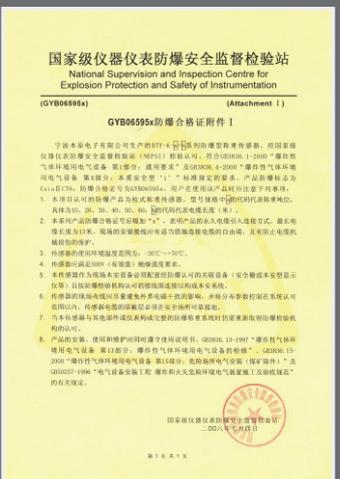
DECLARATION OF Conformity  
Order No. MTE007000000



OIML CERTIFICATE OF CONFORMITY



防爆合格证  
防爆合格证

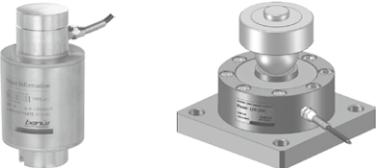
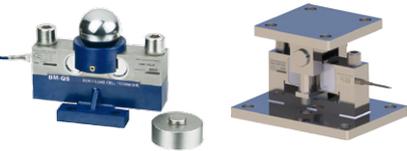


国家级仪器仪表防爆安全监督检验站  
National Supervision and Inspection Centre for  
Explosion Protection and Safety of Instrumentation

# Weighing Scales

MODEL / TYPE	CAPACITIES / SIZE	OPTIONS / NOTES	PAGE NO.
Truck Scale 	Cap.: 1~150t Size: 2*5m ~ 3.4m*24m	Analog Digital Management soft	P 9
Floor Scale 	Cap.: 0.1~10t Size: 1m*1m 1.2m*1.2m 1.5m*1.5m	Alloy steel Stainless steel	P 10
Bench Scale 	Cap.: 5~1000kg Size: 300mm*300mm ~ 600mm*800mm	Alloy steel Stainless steel	P 11
Crane Scale 	Cap.: 0.1~50t	Wireless Remote control Remote display High-Temperature	P 12 ~ 15
Hanging Tester 	Cap.: 1~120t	Wire Wireless Indicators	P 16
Axle Weighing System 	Cap.: 5~20t (each pad) Size: 450mm*720mm 550mm*720mm	Wire Wireless Indicators	P 17
Fork Scale 	Cap.: 1~3t Size: 180mm 320mm	Alloy steel Stainless steel	P 18
Punching Force Testing 	Cap.: 100~300t	Relay output RS485 0~10V	P 19

## Load cells

MODEL / TYPE	CAPACITIES	OPTIONS / NOTES	PAGE NO.
<b>Compression Type</b> 	0.5t~470t	Stainless Steel Digital 0~5V 4~20mA High-temp	P 20 ~ 37
<b>Double Beam</b> 	1~100t	Stainless Steel Digital 0~5V 4~20mA High-temp	P 38 ~ 51
<b>Single Beam</b> 	5kg~20t	Stainless Steel Digital 0~5V 4~20mA High-temp	P 52 ~ 59
<b>Tension Type</b> 	5kg~120t	Stainless Steel Digital 0~5V 4~20mA High-temp	P 60 ~ 67
<b>Single Point</b> 	0.3kg~1000kg	Stainless Steel Digital 0~5V 4~20mA	P 68 ~ 74

## Indicators and Softwares

MODEL / TYPE	APPLICATIONS	OPTIONS / NOTES	PAGE NO.
QDI-11 	Truck Scales	Stainless Steel ABS Mirco Printer	P 75 ~ 76
BSA-207 	Floor Scales Bench Scales	Bracket	P 77
OLT-318 	Overloading limiter	Relay Output RS232 Output	P 78
BWI-31 	Wireless Weighing Pad Tension Tester Crane Scales	LED/LCD RS232 Output Micro Printer	P 79 ~ 80
ATW 	Analogue To Wireles		P 81
ATC-108A 	Analogue To RS232	RS485	P 82
AIO-1524 	PC	Stainless steel Bracket Hard Disk Memory	P 83
Weighing Soft 	Truck Scales	Unmanned Cameras Infrared units Servers .....	P 84 ~ 85

## Accessories

MODEL / TYPE	APPLICATIONS	OPTIONS / NOTES	PAGE NO.
Junction Box 	Weighing Scales	4,6,8,10,12 Channels	P 86
ScoreBoard 	Weighing Scales	Bracket Wireless	P 87
Cable 		4,6 Cores Armoured Anti-Rats	P 88
Leg 	Single Beam loadcells	Alloy Steel Stainless Steel	P 89
Rod End 	Weighing Module	Alloy Steel Stainless Steel Male / Female	P 90
S-Kit 	S Type loadcells	Alloy Steel Stainless Steel	P 91

**Is there no product you interested?  
Please contact with us to get more info...**

## Description

- Perfect quality assurance system
- Perfect detection means
- 100% before delivery performance calibration
- Excellent quality control team
- Innovative high reliability scale body
- Open end installation structure
- High quality U steel girders
- Horizontal reinforced bar arrangement way
- The most advanced automated production equipment
- Overall shot blasting derusting, eliminate all sorts of stress
- Digital cutting
- Automated continuous welding
- High temperature of the lacquer that bake, more resistant to corrosion
- First-class design and evaluation of the team
- Finite element analysis design
- Takes the lead in introducing the finite element analysis, the reliability is higher



## Dimensions

Note: Customization is offered

Product model	SCS-10	SCS-30	SCS-50	SCS-60	SCS-80	SCS-100	SCS-120	SCS-150
Capacity	10	30	50	60	80	100	120	150
Increment value	5	10	20	20	20	50	50	50
load cell capacity	10	15	20	20	30	30	40	40
Floor specification	Composed platform	Recommend specification						
3x7	7	★	★	★				
3x8	4+4	★	★	★				
3x9	5+4	★	★	★				
3x10	5+5	★	★	★				
3x12	6+6		★	★				
3x14	7+7		★	★				
3x15	5+5+5			★	★	★		
3x16	6+5+5			★	★	★	★	
3x18	6+6+6			★	★	★	★	
3.4x10	5+5	★	★	★				
3.4x12	6+6		★	★				
3.4x14	7+7		★	★				
3.4x15	5+5+5			★	★	★		
3.4x16	6+5+5			★	★	★	★	★
3.4x18	6+6+6			★	★	★	★	★
3.4x21	6+5+5+5					★	★	★
3.4x24	6+6+6+6					★	★	★

## Specification

Precision class	OIML III
Weighing capacity	10~150t
Composed platform length	7~24m
Save overloading	125% F.S
Working environment	
Temperature for load cells	-10~+40°C
Temperature for weighing indicator	-30~+70°C
Relevant humidity	<=95%R.H
Working power supply	220VAC/50Hz

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## Description

- General Designed for surface mounting
- Low profile platform
- Fabricated mild steel construction
- Stainless steel is optional
- Slip resistant platform is optional
- Stainless steel load cells is optional
- Bridge approach is optional
- The color of platform is optional
- Ramp is optional
- Indicator type is optional
- Approved to OIML R76



Without Ramp



With Ramp



LED  
ABS



LCD  
SS

With/Without RS232 Weighing String

## Size & Capacity

Size	1t	2t	3t	5t	10t
1m*1m	●				
1.2*1.2m	●	●			
1.5*1.5m	●	●	●		
1.8*1.8m		●	●		
2m*2m			●	●	
2m*3m				●	●
2m*4m				●	●

### Notices:

1. Special size is customizable
2. OEM is offered
3. Related accessories are available eg. scoreboard, soft, pole .. are not listed here

## Specification

Resolution: 10,000 or 100,000 d (Options)  
 Conversion Speed: 10, 20 or 40 samples (Options)  
 Count By: x1, x2, x5, x10, x20, x50  
 Calibration Methods: dead load and span, store in EEPROM

Operating Temp: -10°C to +40°C [14°F to 104°F]  
 Storage Temp: -10°C to +70°C [-4°F to 158°F]  
 Relative Humidity: 40-90% RH, non-condensing

Display: 6 digit, 7-segment, LED, 0.8"  
 Status Enunciators: ON/OFF, Hold, Func, SUM, kg/lb, Tare, Zero  
 Keyboard: 7 key touch switch

Voltage: 110 or 220VAC adapter  
 Power: 5W

Serial Communication: RS232 (USB-B, optional)  
 Baud Rate(Optional): 1200 - 19, 200 baud, full duplex

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## Description

- High Accuracy
- Multiple sizes and capacities
- USB weight string
- Rechargeable lithium battery
- Stainless steel platter
- Stainless steel indicator
- Over loading and deflection
- All in one Package

- Options:

Stainless steel body

Another type of indicators



## Size & Capacity

Model/Cap.	Size	Max. Cap.	Division
	(mm×mm)	(kg)	(g)
BSA-3040-20~150	300×400	30~150	1~5
BSA-4050-30~200	400×500	30~150	1~10
BSA-4560-30~300	450×600	30~300	1~10
BSA-5060-60~600	500×600	60~600	2~20
BSA-6080-600/1000	600×800	600~1000	20/50

### Notices:

1. Supplying weight unit LB
2. OEM is offered
3. Customization is offered

## Specification

Resolution:	10,000 or 100,000 d (Options)
Conversion Speed:	10, 20 or 40 samples (Options)
Sensitivity:	0.5μV/Vsi
Full Scale Range:	4.5mV/V
Linearity:	0.01% of full scale
Excitation:	+5VDC with sense (4/6 wires)
Number of Cells:	Up to 8, 350 ohm load cells
Count By:	x1, x2, x5, x10, x20, x50
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, store in EEPROM
Operating Temp:	-10°C to +40°C [14°F to 104°F]
Storage Temp:	-10°C to +70°C [-4°F to 158°F]
Relative Humidity:	40-90% RH, non-condensing
Display:	6 digit, 7-segment, LED, 0.8"
Status Enunciators:	ON/OFF, Hold, Func, SUM, kg/lb, Tare, Zero
Keyboard:	7 key touch switch
Voltage:	110 or 220VAC adapter
Power:	5W
Serial Communication:	RS232 (USB-B)
Baud Rate:	1200 - 19, 200 baud, full duplex

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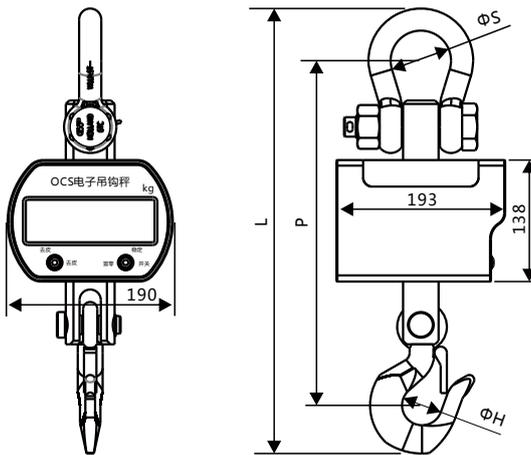
## Description

- Die-casting aluminium casing
- Impact Protection
- 1.2 inches High-light LED
- 2 Batteries with power save mode
- Support equipments:
  - Remote handhold indicator
  - Remote Controller
  - Wireless remote display
- Immediate Stabilizing
- Auto Off/Sleep
- Remote Off/Awakening
- Kg/lb Setable/Convertible
- Tare function
- Weight accumulation function
- HOLD function



## Dimensions

(In mm, 1mm=0.03937inches)



Cap./Para	DIV	L	P	S	H	Packing(mm)	Gross(kg)	
	kg	mm						
1t	0.2	505	390	68	45	580x360x260	13.5	
2t	0.5							
3t								
5t	1	550	420	75	50			17.6
10t	2	650	490	92	62			22.5
15t								

## Notices

1. LED is Red, Green is optional
2. Working time at full charging >100 hours
3. Supports multi-device listed below
4. Gross weight is for reference only
5. OEM/Customization is supported

## Accessories

## Copyright

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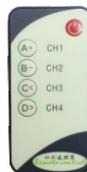
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RDH (Size:117\*68\*16)  
Wireless Handheld  
Indicator



RIC (Size:86\*40\*6)  
Remote Infrared Control



DMP (Size:3",5")  
Wireless Display

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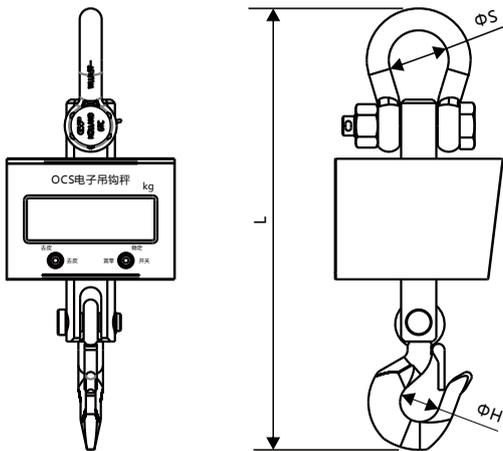
## Description

- Die-casting aluminium casing
- Impact Protection
- 1.2 inches High-light LED
- 2 Batteries with power save mode
- Support equipments:
  - Remote handhold indicator
  - Remote Controller
  - Wireless remote display
- Immediate Stabilizing
- Auto Off/Sleep
- Remote Off/Awakening
- Kg/lb Setable/Convertible
- Tare function
- Weight accumulation function
- HOLD function



## Dimensions

(In mm, 1mm=0.03937inches)



Cap.	DIV.(kg)	H(mm)	S(mm)	L(mm)	Gross Weight (kg)
15t	5	142	93	1150	65
20t					
30t	10	165	110	1330	160
50t	20	380	180	1420	235

### Notices

1. LED is Red, Green is optional
2. Working time at full charging >100 hours
3. Supports multi-device listed below
4. Gross weight is for reference only
5. OEM/Customization is supported

## Accessories



RDH (Size:117\*68\*16)  
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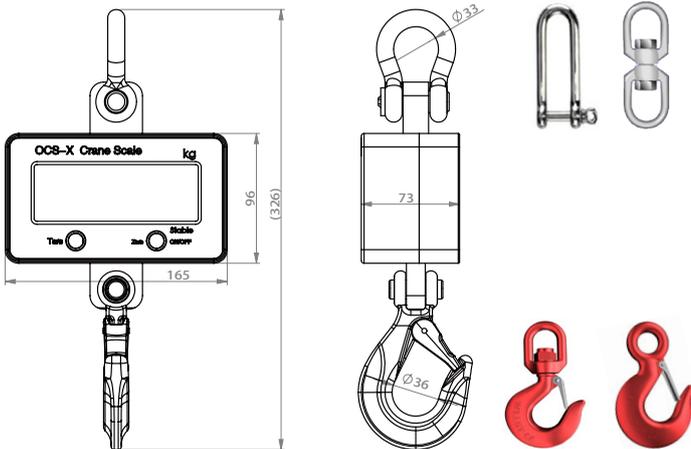
## Description

- Nylon Housing
- Impact Protection
- 0.8 inches High-light LED
- Power save mode
- Support equipments:
  - Remote handhold indicator
  - Remote Controller
  - Wireless remote display
- Immediate Stabilizing
- Auto Off/Sleep
- Remote Off/Awakening
- Kg/lb Setable/Convertible
- Tare function
- Weight accumulation function
- HOLD function



## Dimensions

(In mm, 1mm=0.03937inches)



量程/尺寸 Cap./Size	分度 kg	包装尺寸 (mm)	毛重(kg) Gross
100kg	0.02	310x200x170	2.5
200kg			
300kg			
500kg	0.1		2.9
1000kg	0.2		

## Notices

1. LED is Red, Green is optional
2. Working time at full charging >36 hours
3. Supports multi-device listed below
4. Gross weight is for reference only
5. OEM/Customization is supported

## Specification

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Wireless Handheld  
Indicator



RIC (Size:86\*40\*6)  
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DMP (Size:3",5")  
Wirless Display

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## Description

- Seamless steel tube housing
- 433 MHz
- Wireless Working distance >=200m
- 2 Batteries with power save mode
- Support equipments: Remote handheld indicator  
Bluetooth with APP soft  
Wireless display
- Immediate Stabilizing
- Auto Off/Sleep
- Remote Off/Awakenin
- Kg/lb Setable/Convertible
- Tare function
- Weight accumulation function
- HOLD function



## Dimensions

(In mm, 1mm=0.03937inches)

Cap.	DIV .(kg)	Max Size (mm)	Gross Weight (kg)
5t	2	780*270*160	42
10t			
15t	5	830*325*200	62
20t	10	50*325*220	86
30t			116

## Notices

1. LED is Red, Green is optional
2. Working time at full charging >100 hours
3. Supports multi-device listed below
4. Gross weight is for reference only
5. OEM/Customization is supported

## Accessories



RDH (Size:117\*68\*16)  
Wireless Handheld  
Indicator



DMP (Size:3"5")  
Wireless Display

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## Description

### Worldwide licence exempt:

2.4GHz operating frequency  
433 MHz is optional

### Range Min:

not less than 100m

### Battery working life:

Active not less than 36 hours  
(full charge and turn off backlight)

### Display: LCD 128\*64 with backlighting

show weight value: 6 bit  
show working life of battery  
show strength of signal

### Hold on the peak value

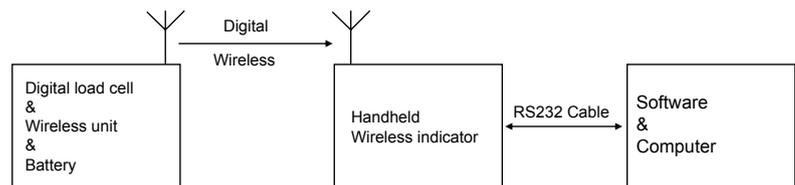
### Can contact with computer by RS232



## Work Theory

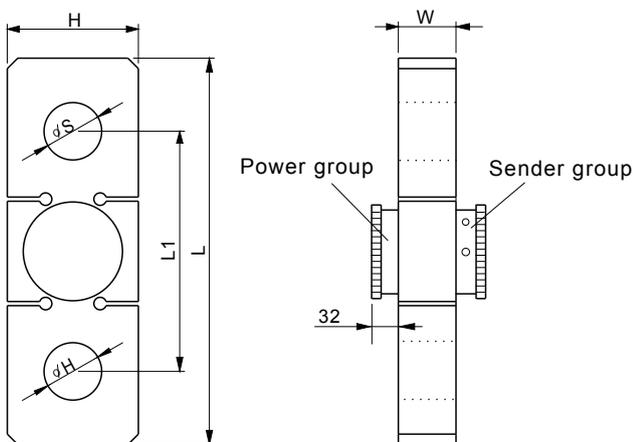
(In mm, 1mm=0.03937inches)

First, the load cell's output signal is digital, with digital compensation and temperature compensation. Though 2.4G wireless module to launch and will be responding once handheld sending commands, so this is duplex working type, also handheld has a port to output weighing string by RS232.



Handheld receive load cell output and its internal battery power consumption values then show them on the LCD display, and handheld through the RS232 output to a computer or large-screen display. If necessary, Multi-channel working is optional, one handheld can be connected to up to 16 sensors.

## Dimensions



CAP./SIZE	L	L1	H	W	φS	φH	Shackle	Hook
1~5t	23 0	16 0	76	34	30	21	7/ 8	5/ 8
10t	28 0	18 8	90	47	40	28	1 1/ 4	3/4
20~30t	37 0	23 0	125	55	53	53	1 3/ 4	----
40~50t	43 0	26 0	150	65	73	73	2 1/ 2	----
60t	43 0	26 0	150	85	73	73	2 1/ 2	----
100~120t	58 0	34 0	220	115	98	98	3 1/ 2	----

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## Notices

1. There is a switch inside, need to turn on/off manually
2. Please turn off the unit during charging

## Description

- Worldwide licence exempt: 2.4GHz operating frequency
- Dynamic or Static mode
- Range Min: not less than 100m
- Battery working life : full charge with turning off backlight

Indicator: Active not less than 70 hours

Pad: Active not less than 12 hours

- Display: LCD 128\*64 with backlighting

show weight value: 6 bit

show working life of battery

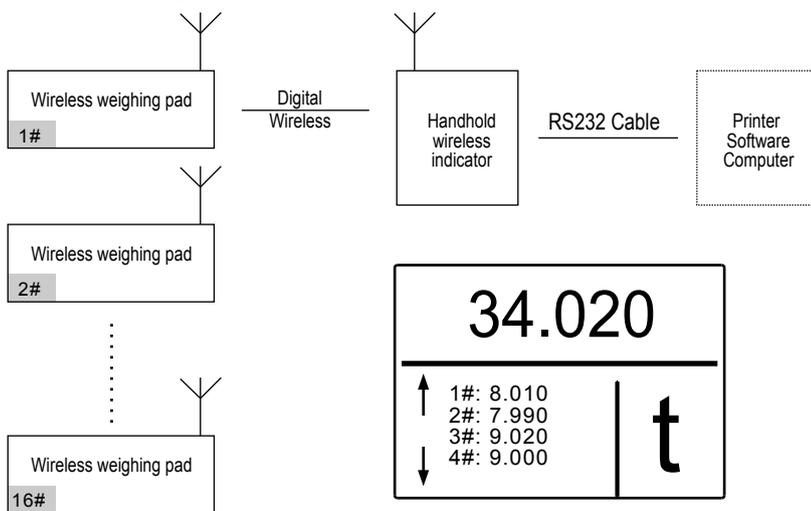
show strong of signal

- Hold on the peak value
- Weighing string by RS232



## Work Theory

BWI-31 wireless indicator is able to connect with Max 16 nos wireless weighing pads, indicator will list every weight from pads which it searched automatically, then show total weight at the one screen with the listing. One of advantages is that no need any cable/wire for connection in the whole system.



Display interface

The format of bill for thermal printer

```

Date: YYYY.MM.DD
Time: HH:MM:SS
Truck ID: *****
Goods ID: *****
GoodsGW: *****
GoodsNW: *****
Axle 1#: **.*
Axle 2#: **.*
Axle 3#: **.*

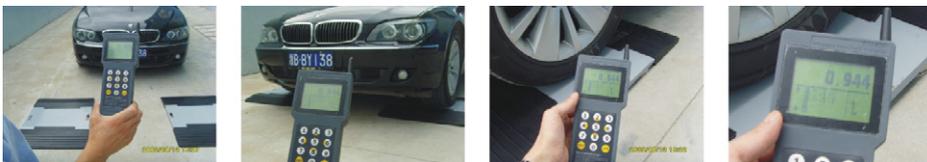
Axle 8#: **.*
Total: **.*
    
```

More informations about the refered products:

Weighing pad:  
<http://www.makenie.com/uploadfile/pdf/pad.pdf>

Wireless indicator:  
<http://www.makenie.com/uploadfile/pdf/bwi31.pdf>

## Operation



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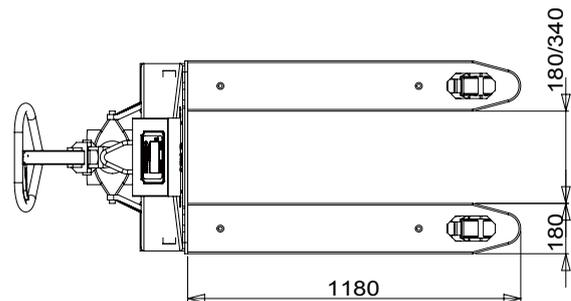
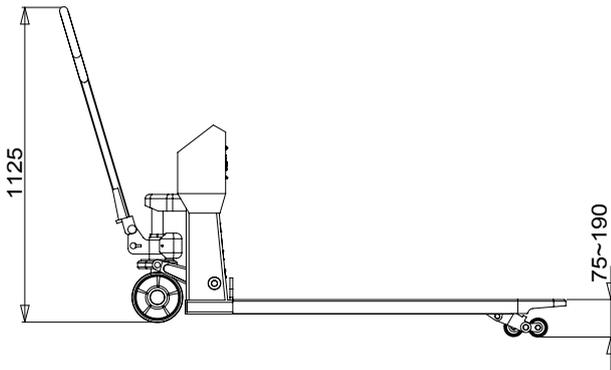
## Description

- With all universal hand pallet truck functions
- Specilized uylon or polyurethane load wheels
- 6-digits 1-inch LCD display, LED(Optional)
- Auto zero tracking
- Overload indication
- Totalizing of weight value and weighing times Basic counting function
- Weight unit converting
- Auto shut-off function
- Ticket print(Optional)



## Dimensions

(In mm, 1mm=0.03937inches)



## Specification

Cap.	Div.	Lift Height	Fork Size			Net weight
			Length	Interior	Width	
t	kg	mm				kg
1	0.5	75~190	1180	340	180	135
2	1			180		
1	0.5					
2	1					

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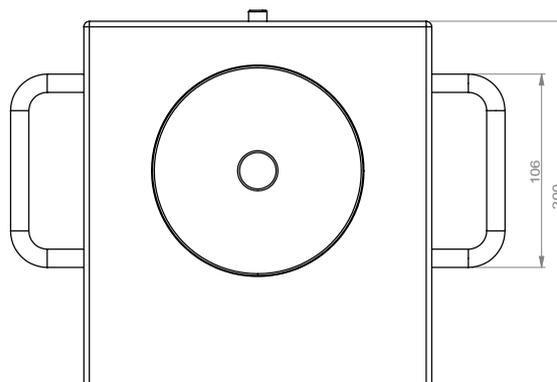
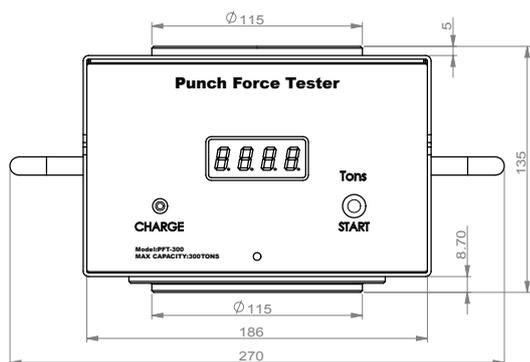
## Description

- Capacity: 100~300t
- Quick response, 1K samples/S
- 4-digits 0.8 inch LED display
- Auto zero tracking
- Peak hold
- Low power consumption
- Stainless steel case



## Dimensions

(In mm, 1mm=0.03937inches)



## Specification

Resolution:	1,000 or 10,000 d (Options)
Conversion Speed:	1000 samples
Sensitivity:	0.5 $\mu$ V/Vsi
Full Scale Range:	4.5mV/V
Linearity:	0.1% of full scale
Excitation:	+5VDC with sense (4/6 wires)
Count By:	0.1, 0.2, 0.2, 0.5, 1
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, store in EEPROM
Operating Temp:	-10°C to +40°C [14°F to 104°F]
Storage Temp:	-10°C to +70°C [-4°F to 158°F]
Relative Humidity:	40-90% RH, non-condensing
Display:	4 digit, 7-segment, LED, 0.8"
Status Enunciators:	ON/OFF, Zero
Voltage:	110 or 220VAC adapter
Power:	1W

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## Description

### Capacities: (E<sub>max</sub>)

10,20,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

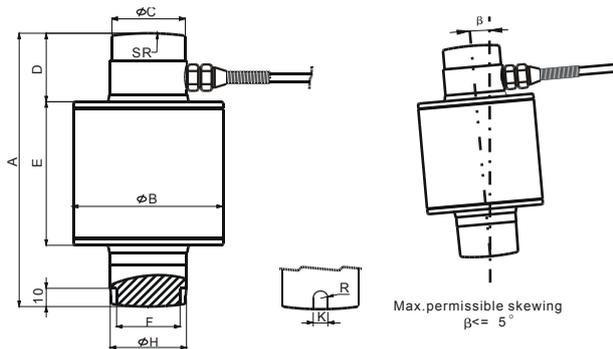
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	C	D	E	F	H	K	SR
10~30t	150	82	40	38	82	34.7	41.7	8	150
40~60t	170	88	53	47	95	43	53	10	200

## Circuit Diagram

### Electrical Termination

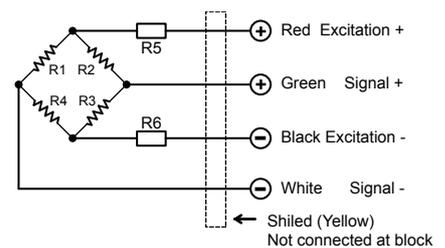
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	10,20,30,40,50,60	t
Maximal numbers of loadcell verification intervals (N <sub>ic</sub> ):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>k</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	775 ±10	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

# BTY-M

## Self-restoring Rocker-pin Module

### Description

#### Capacities: (Emax)

10,20,30,40,50,60t

#### Rated output:

2.0mV/V

Digital:1,000,000d

#### Grade/Accuracy:

C3 OIML R60

#### Material of elastomer:

Alloy steel or stainless steel

#### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

#### Sealed to IEC 529:

Protection grade: IP67 or IP68.

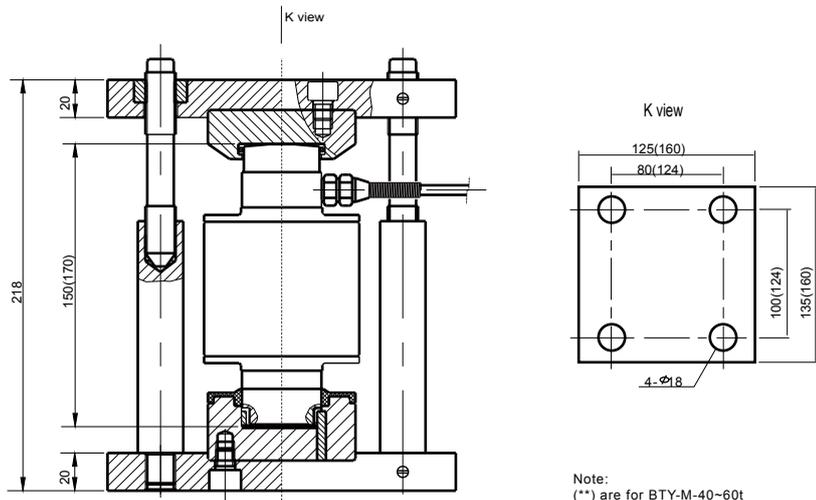
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



### Dimensions

(In mm, 1mm=0.03937inches)



Note:  
(\*\*) are for BTY-M-40-60t

### Circuit Diagram

#### Electrical Termination

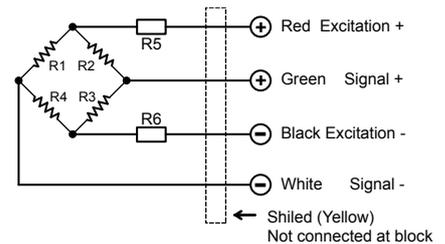
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



#### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

### Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

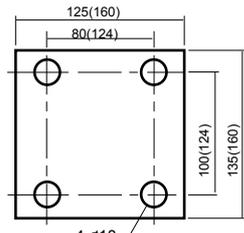
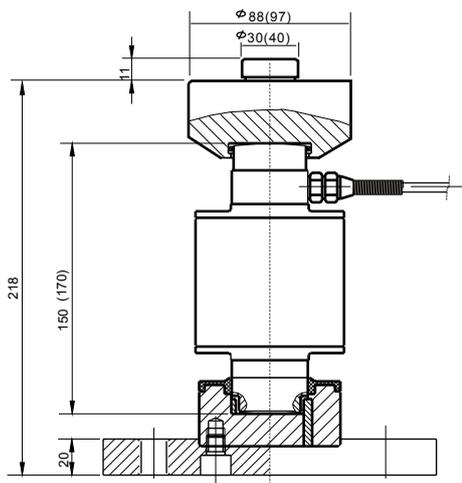
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Bottom view

Note:  
(\*\*) are for BTY-M-40~60t

## Circuit Diagram

### Electrical Termination

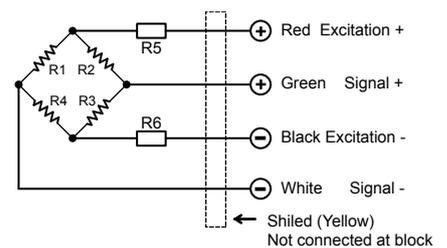
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BTY-MF

# Self-restoring Rocker-pin Module

## Description

### Capacities: (Emax)

10,20,30,40t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

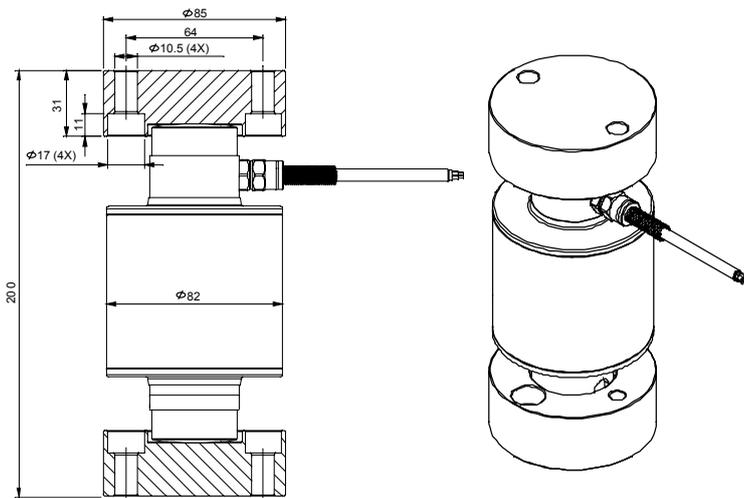
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

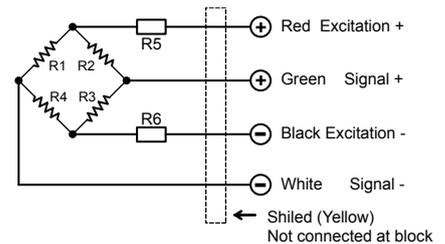
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,30,40	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BTY-GD

# Self-restoring Rocker pin Load Cell

## Description

### Capacities: (Emax)

50,100 klb, 23,45t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

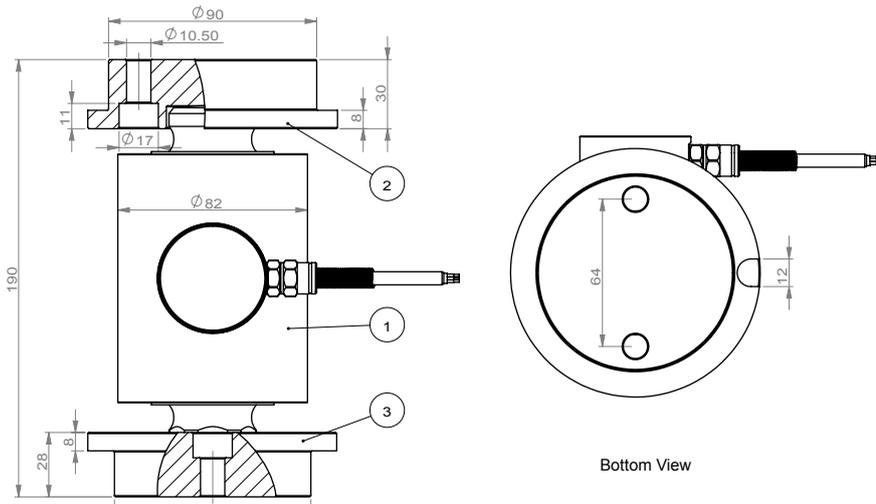
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

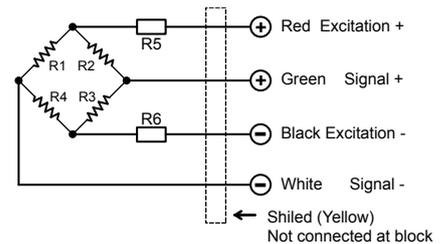
4 Cores cable standard lengths:

10m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	50,100 klb, 23,45t	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BT-302

## Self-restoring Rocker pin Load Cell

### Description

#### Capacities: (Emax)

50,100 klb, 23,45t

#### Rated output:

2.0mV/V

Digital:1,000,000d

#### Grade/Accuracy:

C3 OIML R60

#### Material of elastomer:

Alloy steel or stainless steel

#### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

#### Sealed to IEC 529:

Protection grade: IP67 or IP68.

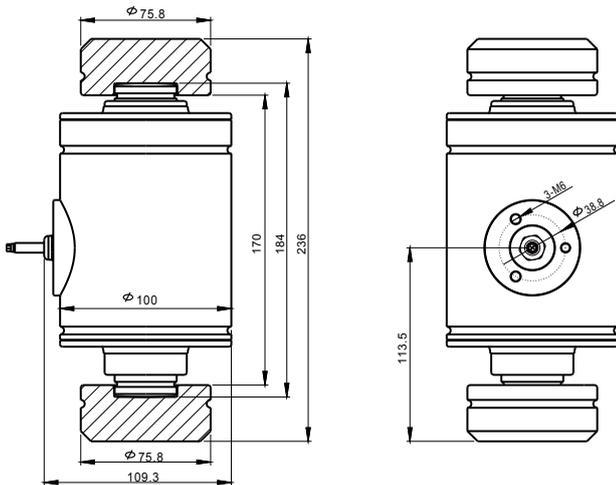
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



### Dimensions

(In mm, 1mm=0.03937inches)



### Circuit Diagram

#### Electrical Termination

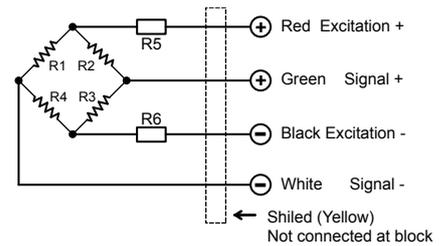
4 Cores cable standard lengths:

10m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



#### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

### Specification

Item/Parameter	C3	Unit
Rated load(Emax):	50,100 klb, 23,45t	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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Ningbo Maken Electric Co.,Ltd.

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (E<sub>max</sub>)

20,30,50,100,200,300 klb

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

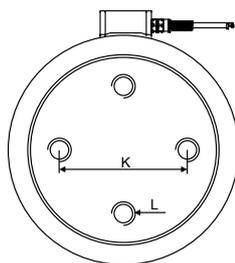
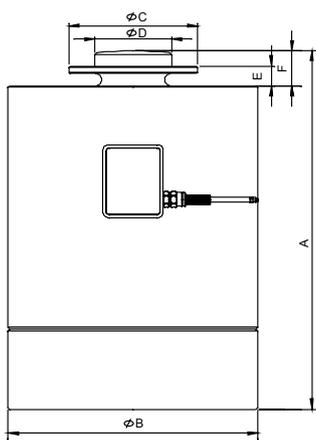
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Bottom view

CAP./SIZE	A	B	C	D	E	F	H	K	L
20~50klb	190.5	114.3	57.1	31.8	12.7	19.1	63.5	60.3	3/8-24
100klb	231.8	152.4	79.4	44.5	15.9	27.0	64.3	101.6	1/2-20
200klb	295.3	203.2	114.3	63.5	15.9	27.0	89.7	139.7	5/8-18
300klb	355.8	252	127	76.2	19.1	33.3	109.5	139.7	3/4-16

## Circuit Diagram

### Electrical Termination

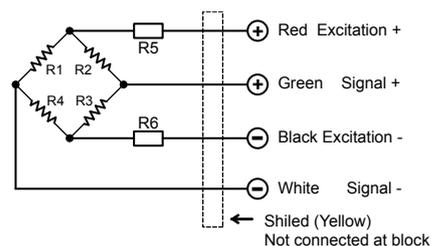
4 Cores cable standard lengths:

<=50klb:6m,>=100klb:10m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	20,30,50,100,200,300	klb
Maximal numbers of loadcell verification intervals (N <sub>ic</sub> ):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>k</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	775 ±10	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

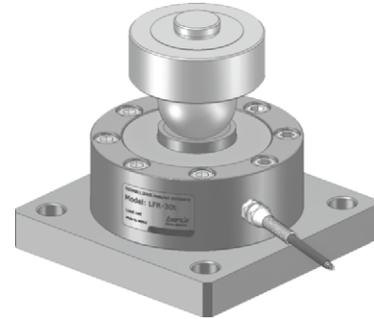
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

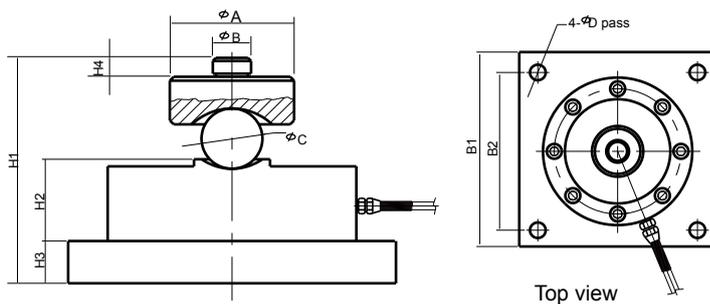
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	φA	φB	φC	φD	H1	H2	H3	H4	B1	B2
0.5,1,2,3t	39	15	25.4	11	88.7	34.8	18	10	138	112
5,10t	48	20	38.1	13	123.9	47.8	20	10	160	130
20,30t	88	30	50.8	18	162.6	57.2	25	11	170	133
40,50,60t	96.5	40	76.2	22	193.8	58	30	11	220	180

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Circuit Diagram

### Electrical Termination

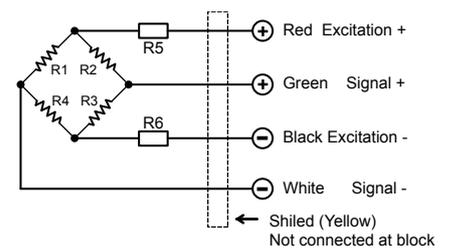
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

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## Description

### Capacities: (Emax)

10,20,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

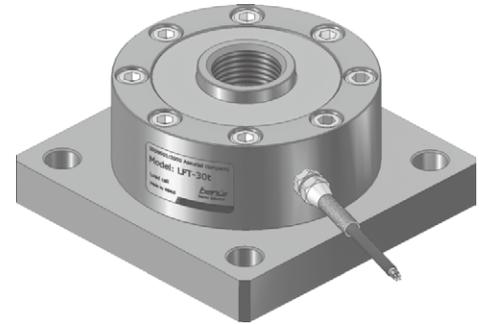
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

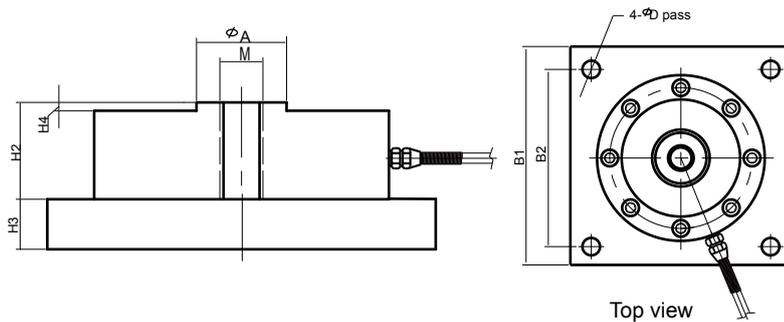
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	φA	φD	M	H2	H3	H4	B1	B2
0.5,1,2,3t	29	11	16	34.8	18	3	138	112
5,10t	39	13	32x2	47.8	20	6.4	160	130
20,30t	50.4	18	39x3	57.2	25	6.4	170	133

## Circuit Diagram

### Electrical Termination

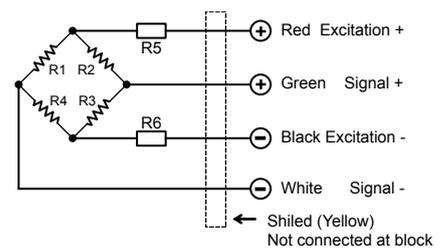
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

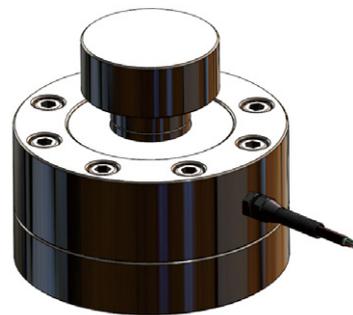
**Capacities: (Emax)**  
0.5,1,2,3,5,10,20,30t

**Rated output:**  
2.0mV/V  
Digital:1,000,000d

**Grade/Accuracy:**  
C3 OIML R60

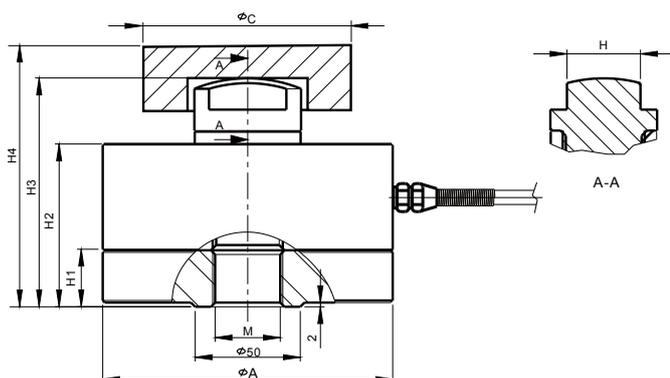
**Material of elastomer:**  
Alloy steel or stainless steel

**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%  
**Sealed to IEC 529:**  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

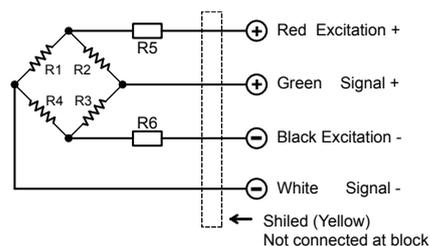
(In mm, 1mm=0.03937inches)



CAP./SIZE	φA	φC	H	H1	H2	H3	H4	M
0.5,1,2,3t	105	38	20	25	70	85	95	14*2
5t	120	48	25	30	80	95	110	20*1.5
10,30t	155	78	35	35	90	115	139	32*2

## Circuit Diagram

**Electrical Termination**  
4 Cores cable standard lengths:  
<=3t:3m,5t:6m,>=10t:12m  
Cable Diameter:φ6  
Connection:  
Refer to the following drawing:



**Note:**  
6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.5,1,2,3,5,10,20,30	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tk):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Ri):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TkC are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.5,1,2,3,5,10,20,30,50,75t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

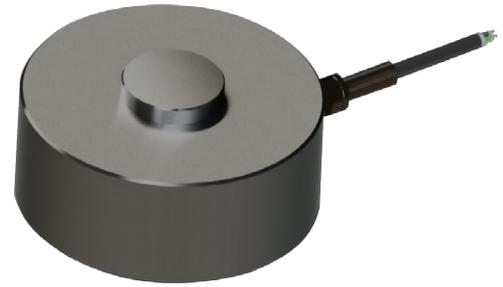
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

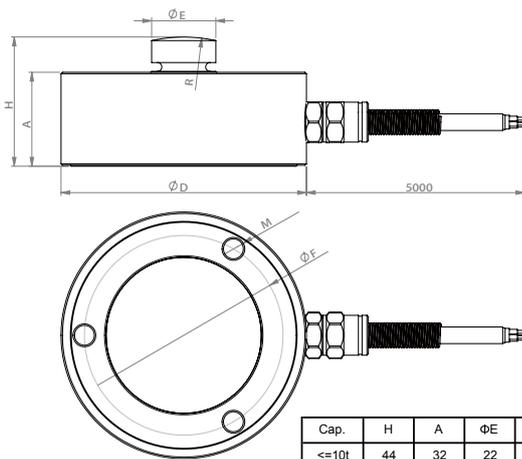
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Cap.	H	A	ΦE	R	ΦD	ΦF	M
<=10t	44	32	22	50	82	68	M8(3X)
20~30t	64	50	35	160	126	90	M8(3X)
50~75t	80	60	60	300	165	130	M16(4X)

## Circuit Diagram

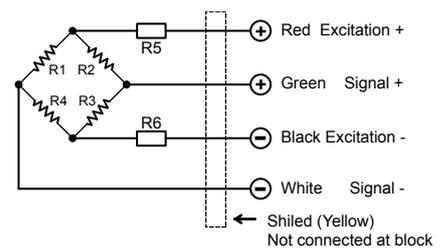
### Electrical Termination

4 Cores cable standard lengths:  
1m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or less, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.5,1,2,3,5,10,20,30,50,75	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

3,5,7.5t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

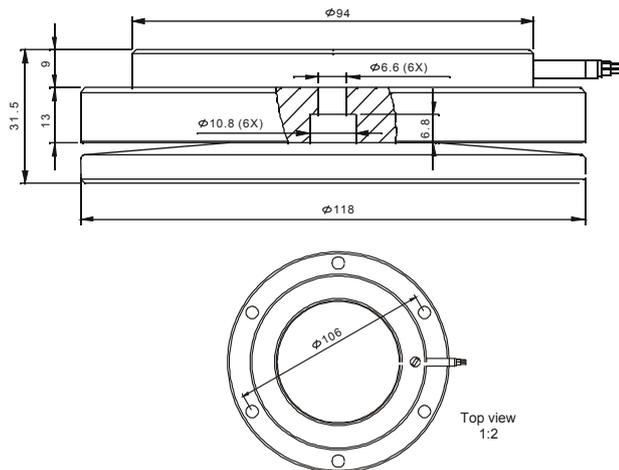
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

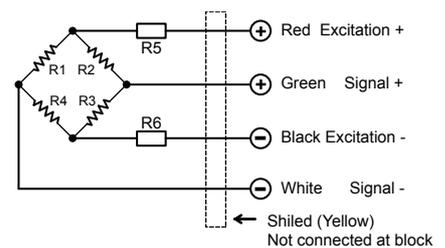
4 Cores cable standard lengths:

1m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	3,5,7.5	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

25,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

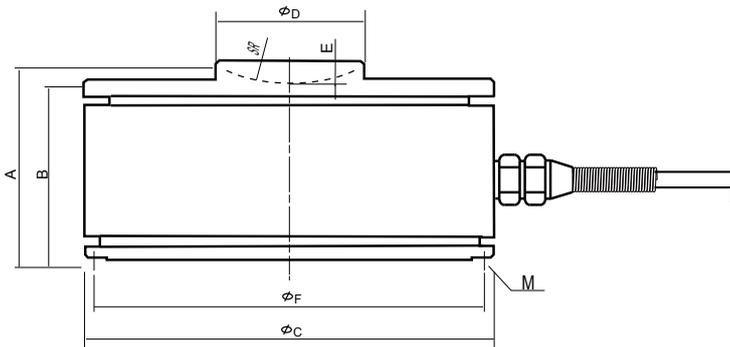
Protection grade: IP67 or IP68.

Protection against total immersion in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	C	D	E	F	M	SR
25~30t	53	46	120	45	4.5	112	8-M5	40
40~60t	70	63	140	51	4.5	130	8-M5	60

## Circuit Diagram

### Electrical Termination

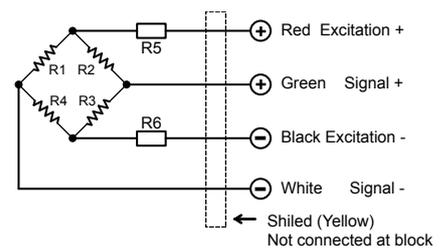
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	25,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	1550 ±10	Ω(Ohms)
Output resistance (Ro):	1402 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	8~24	V( DC or AC)
Maximum excitation:	36	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

25,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

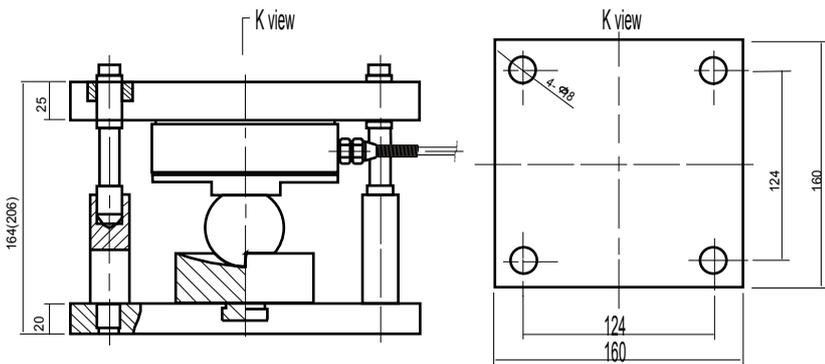
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

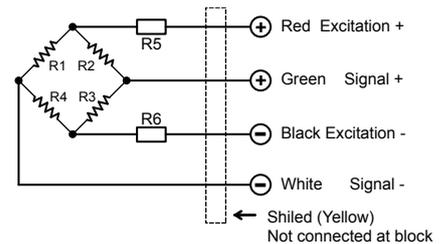
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	25,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	1550 ±10	Ω(Ohms)
Output resistance (Ro):	1402 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~24	V( DC or AC)
Maximum excitation:	36	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

25,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

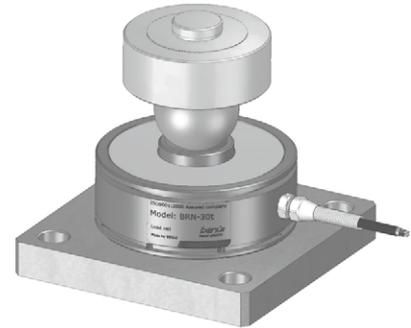
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

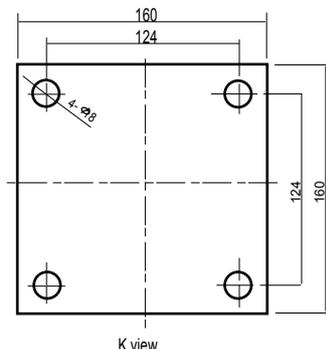
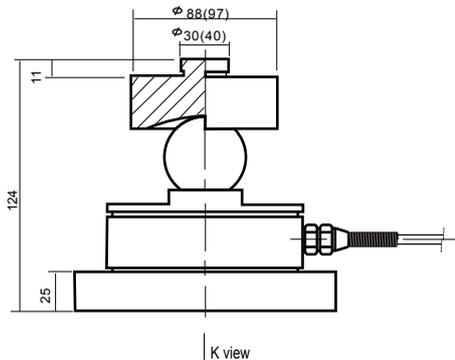
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Note:  
(\*\*) are for BRN-M-40-60t

## Circuit Diagram

### Electrical Termination

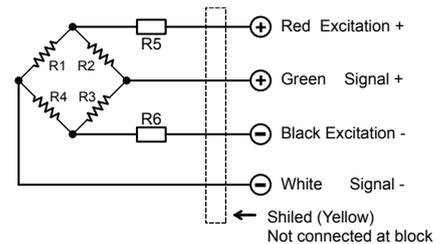
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	25,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	1550 ±10	Ω(Ohms)
Output resistance (Ro):	1402 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~24	V( DC or AC)
Maximum excitation:	36	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,2.2,3,3.3,4,7,10,22,33,47,68  
100,220,330,470t

### Rated output:

2.0mV/V  
Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

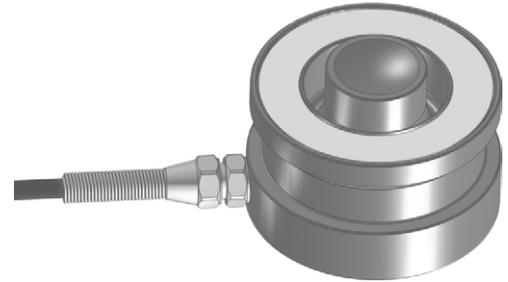
Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%

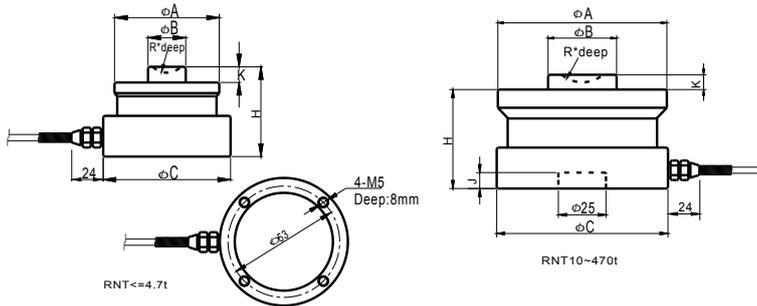
### Sealed to IEC 529:

Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	1t	2.2t	4.7t	10t	15t	22t	33t	47t	68t	100t	150t	220t	330t	470t
$\phi A$	49	49	49	74	75	75	95	130	130	150	150	225	225	270
$\phi B$	20	20	20	30	30	30	40	60	60	70	70	100	100	120
$\phi C$	60	60	60	75	75	75	95	130	130	150	150	225	225	270
H	43	43	43	50	50	50	65	75	85	90	100	130	145	170
J	-	-	-	7	7	7	7	7	7	7	7	10	10	10
K	7.5	7.5	7.5	6.5	6.5	6.5	10	14	14	16	16	24	24	28
R	15	15	15	25.4	25.4	25.4	50	60	-	-	-	-	-	-
Deep	2.2	2.2	2.2	3.3	3.3	3.3	3.3	5.1	-	-	-	-	-	-

## Circuit Diagram

### Electrical Termination

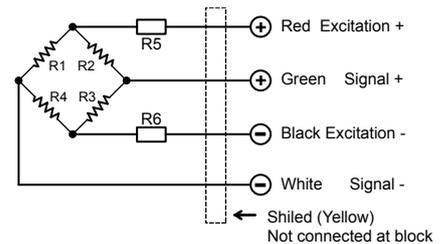
4 Cores cable standard lengths:

$\leq 10$ :5m, 22~47t:12m,  $\geq 68$ t:6m

Cable Diameter: $\phi 6$

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or else,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1~470	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 $\pm$ 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/ $^{\circ}$ C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/ $^{\circ}$ C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	775, $\geq 30$ t:1550 $\pm$ 10	$\Omega$ (Ohms)
Output resistance (Ro):	702 $\geq 30$ t:1402 $\pm$ 2	$\Omega$ (Ohms)
Insulation resistance:	$\geq 5000$	M $\Omega$ (Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	$^{\circ}$ C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,2,4,7,10,22,33,47t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

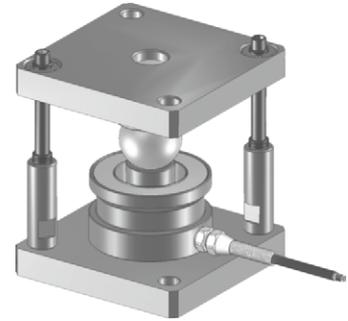
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

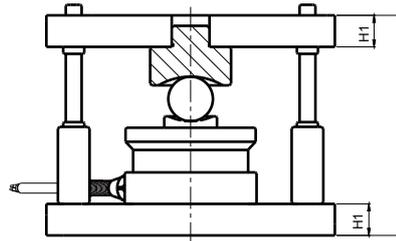
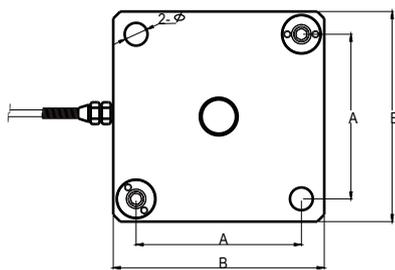
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	H	H1	∅
1-4.7t	94	120	114.4	18	13
10-22t	94	120	137.8	18	13
33t	105	130	181.1	22	18
47t	124	160	228.7	22	18

## Circuit Diagram

### Electrical Termination

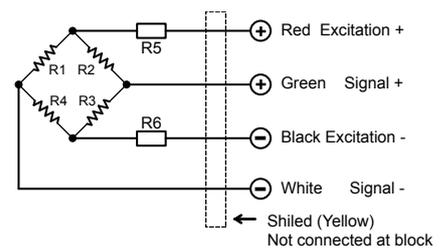
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:∅6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,2,4,7,10,22,33,47	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775, >=30t:1550 ±10	Ω(Ohms)
Output resistance (Ro):	702 >=30t:1402 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,2.4,7,10,22,33,47t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

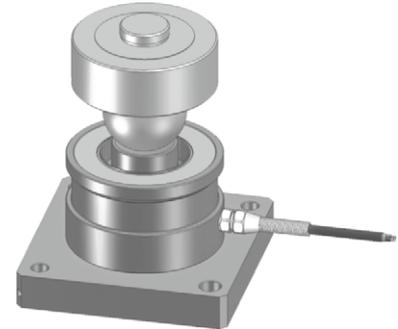
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

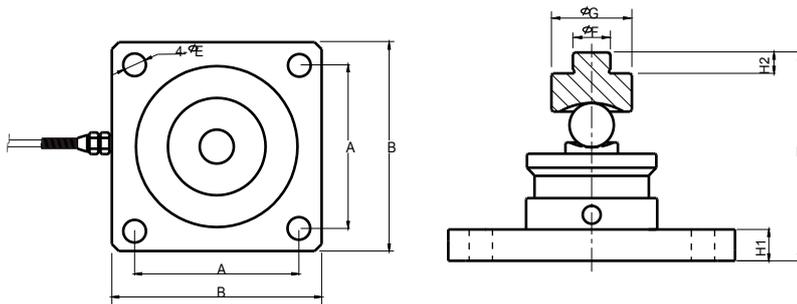
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	H	H1	H2	φE	φF	φG
1~4.7t	94	120	108.4	18	12	13	21.5	39
10~22t	94	120	131.8	18	12	13	21.5	46
33t	105	130	159.1	22	8	18	30	88
47t	124	160	217.7	22	11	18	40	97

## Circuit Diagram

### Electrical Termination

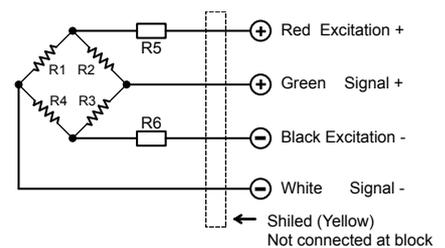
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,2.4,7,10,22,33,47	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775, >=30t:1550 ±10	Ω(Ohms)
Output resistance (Ro):	702 >=30t:1402 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,25,30,40,50t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

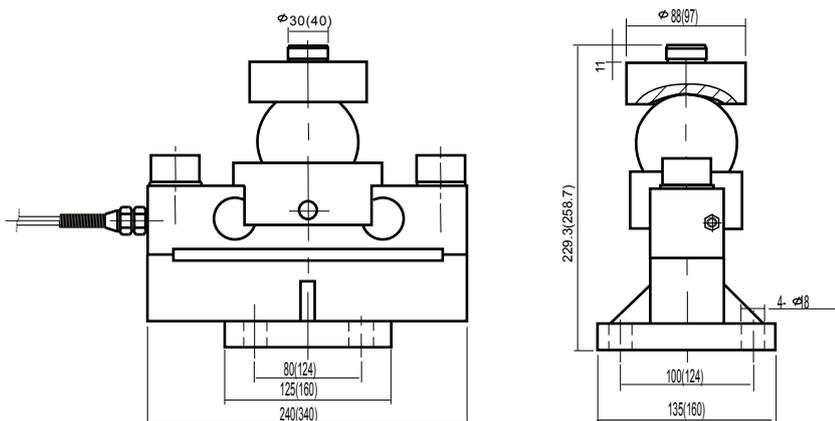
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Note:  
(\*\*) are for QS-40~50t

## Circuit Diagram

### Electrical Termination

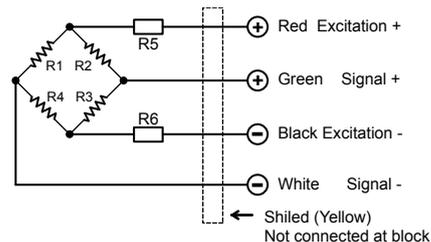
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,30,40,50	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,25,30t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

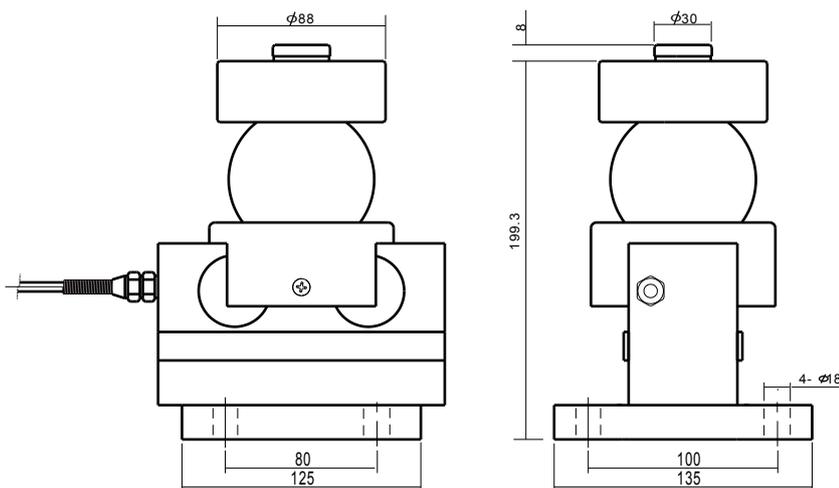
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

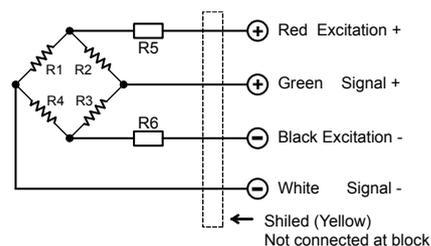
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,30	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,25,30t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

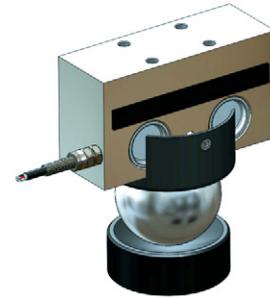
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

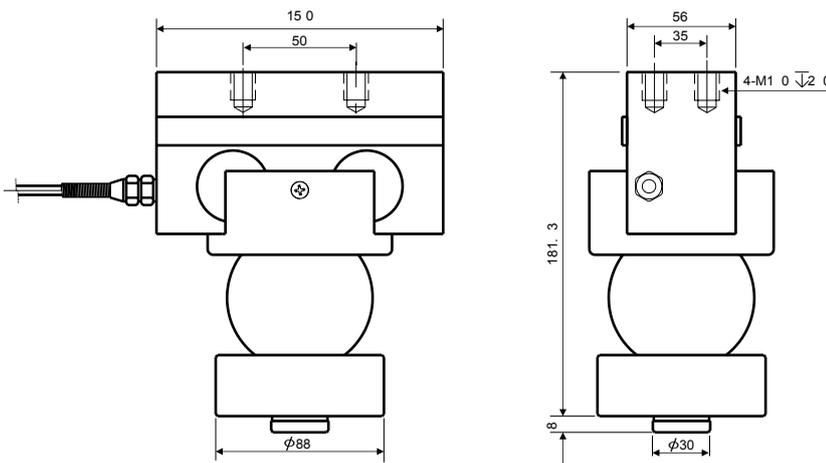
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

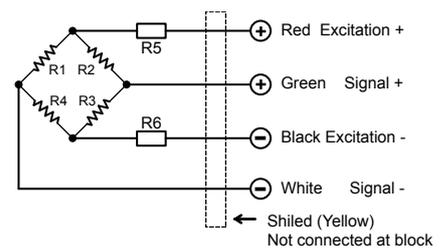
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,30	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,25,30,40t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

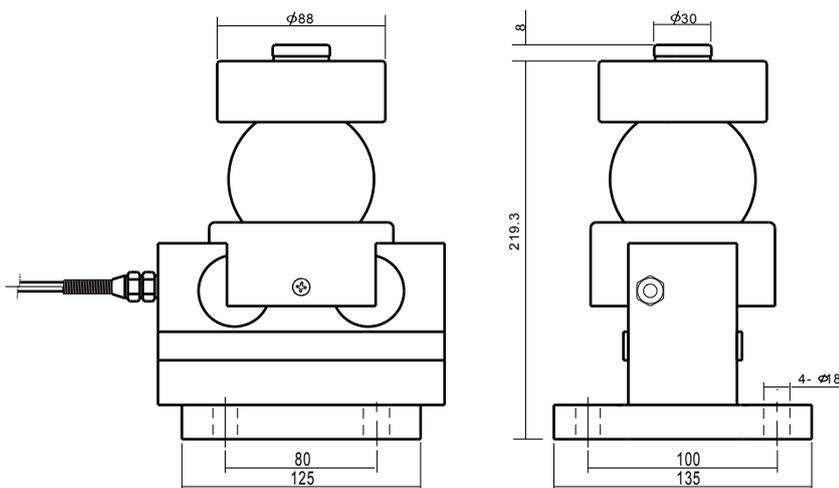
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

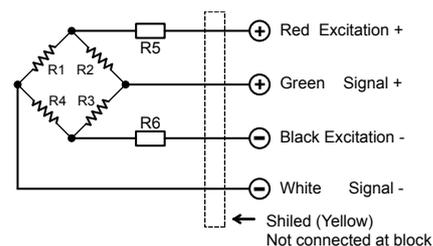
4 Cores cable standard lengths:

<=30t:12m,>=40t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,30,40	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,25,35,50,75,100klb

### Rated output:

3.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

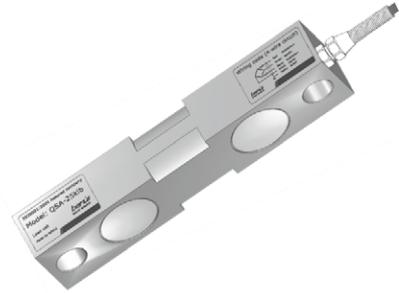
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

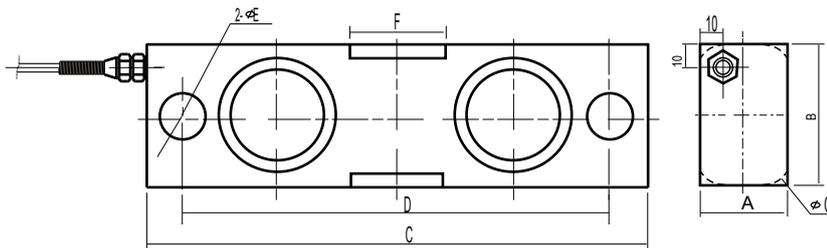
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	C	D	E	F	G
10~25klb	36.6	49.3	222.2	190.5	20.6	41.1	50.5
35klb	38.1	63.5	222.2	190.5	20.6	41.1	64.8
50~75klb	62	74.7	393.7	292.1	33.3	82.5	75.9
100klb	74.7	100.1	469.9	381.0	41.4	82.5	107.9

## Circuit Diagram

### Electrical Termination

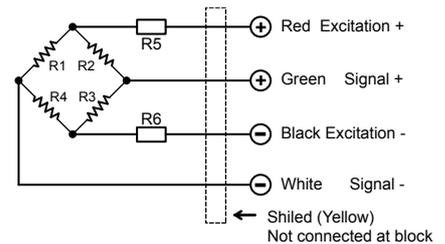
4 Cores cable standard lengths:

<=50klb:12m,>=75klb:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,35,50,75,100	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

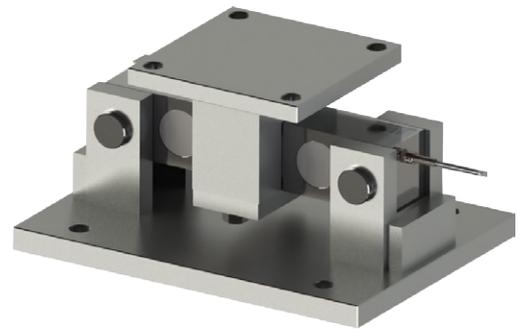
**Capacities: (Emax)**  
10,20,25,35,50,75,100klb

**Rated output:**  
3.0mV/V  
Digital:1,000,000d

**Grade/Accuracy:**  
C3 OIML R60

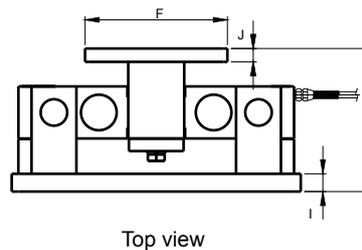
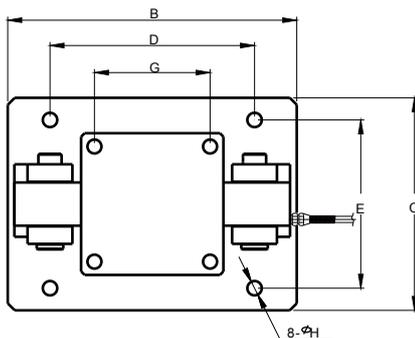
**Material of elastomer:**  
Alloy steel or stainless steel

**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%  
**Sealed to IEC 529:**  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Top view

CAP./SIZE klb	A	B	C	D	E	F	G	H	I	J
10~25	7.90	12.00	8.00	7.50	6.00	8.00	6.00	0.78	0.75	0.75
50~75	9.30	16.25	12.00	11.5	9.50	9.00	6.50	0.78	1.00	1.00
100~125	11.75	23.50	14.00	20.00	12.00	10.00	8.00	1.12	1.50	1.50

## Specification

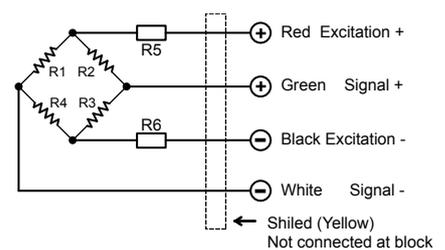
Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,35,50,75,100	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Circuit Diagram

### Electrical Termination

4 Cores cable standard lengths:  
<=50klb:12m,>=75klb:16m  
Cable Diameter:φ6  
Connection:  
Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

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## Description

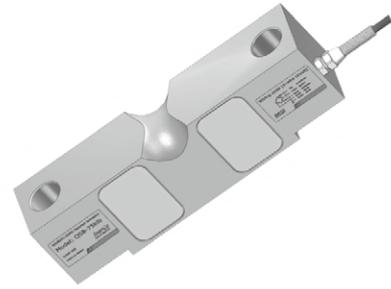
**Capacities: (E<sub>max</sub>)**  
10,20,25,35,50,75klb

**Rated output:**  
3.0mV/V  
Digital:1,000,000d

**Grade/Accuracy:**  
C3 OIML R60

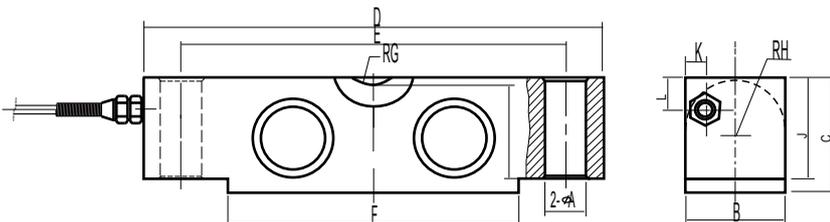
**Material of elastomer:**  
Alloy steel or stainless steel

**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%  
**Sealed to IEC 529:**  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

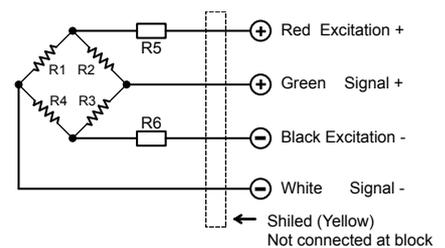
(In mm, 1mm=0.03937inches)



CAP./SIZE klb	A	B	C	D	E	F	G	H	I	J	K	L
10~25	17.3	42.9	49.3	196.9	165.1	125.1	19.1	22.9	41.4	43.2	8.8	13.6
40	20.6	49.3	62.0	260.4	215.9	162.4	25.4	28.5	50.8	53.3	9.0	31.0
50~75	27.0	60.2	74.7	260.4	215.9	162.4	25.4	34.8	64.5	67.3	10.4	37.4

## Circuit Diagram

**Electrical Termination**  
4 Cores cable standard lengths:  
<=50klb:12m,>=75klb:16m  
Cable Diameter:Φ6  
Connection:  
Refer to the following drawing:



**Note:**  
6 Cores cable is optional.  
Do not change the length of cable, or else,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	10,20,25,35,50,75	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>kc</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	775 ±10	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

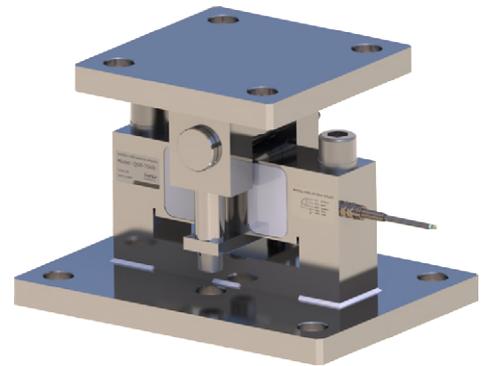
**Capacities: (Emax)**  
10,20,25,35,50,75klb

**Rated output:**  
3.0mV/V  
Digital:1,000,000d

**Grade/Accuracy:**  
C3 OIML R60

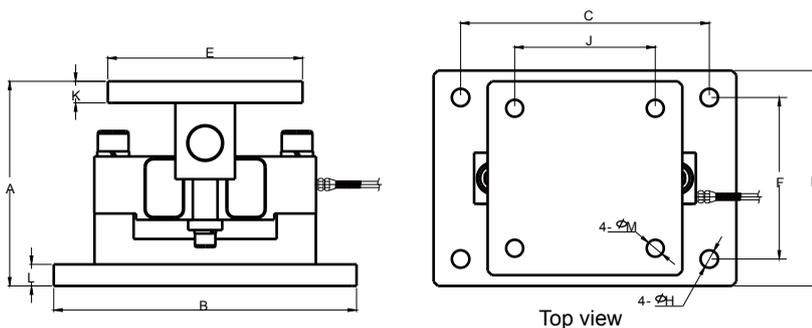
**Material of elastomer:**  
Alloy steel or stainless steel

**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%  
**Sealed to IEC 529:**  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

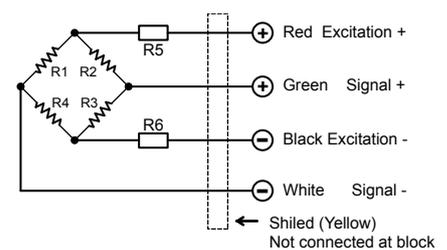
(In mm, 1mm=0.03937inches)



CAP./SIZE klb	A	B	C	D	E	F	H	J	K	L	M
10~25	6.50	10.00	7.50	8.00	8.00	6.00	0.78	6.00	0.75	0.75	0.78
40	7.80	14.00	11.50	10.00	8.00	7.50	1.12	6.00	0.75	1.00	0.78
50~75	9.50	14.00	11.50	10.00	9.00	7.50	1.12	6.50	1.00	1.00	1.12

## Circuit Diagram

**Electrical Termination**  
4 Cores cable standard lengths:  
<=50klb:12m,>=75klb:16m  
Cable Diameter:Φ6  
Connection:  
Refer to the following drawing:



**Note:**  
6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,35,50,75	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

5,10,20,30,60,100,150,200klb

### Rated output:

3.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

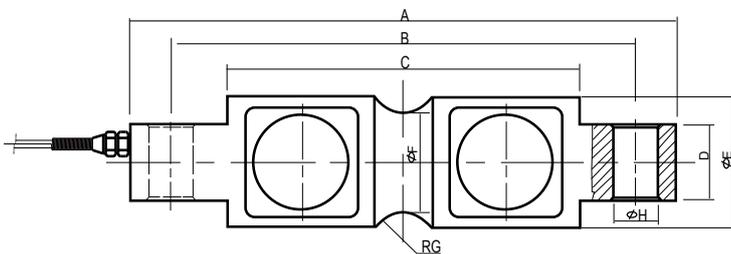
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	C	D	E	F	G	H
5~10klb	206.3	174.8	133.1	28.5	43.2	37.6	12.7	16.8
20klb	206.3	174.8	133.1	28.5	49.3	37.6	12.7	16.8
30~60klb	260.4	215.9	164.8	60.2	76.2	69.3	25.4	26.9
100klb	285.8	241.3	190.2	63.5	95.3	82.3	25.4	26.9
150klb	285.8	241.3	190.2	71.1	99.1	92.5	38.1	26.9
200klb	409.0	330.2	254.0	116.8	136.7	131.1	50.8	39.6

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	5,10,20,30,60,100,150,200	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Circuit Diagram

### Electrical Termination

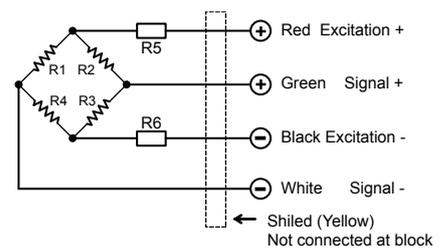
4 Cores cable standard lengths:

<=20klb:5m,30~100klb:12m,>=150klb:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

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## Description

### Capacities: (Emax)

5,10,20,30,60,100,150,200klb

### Rated output:

3.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

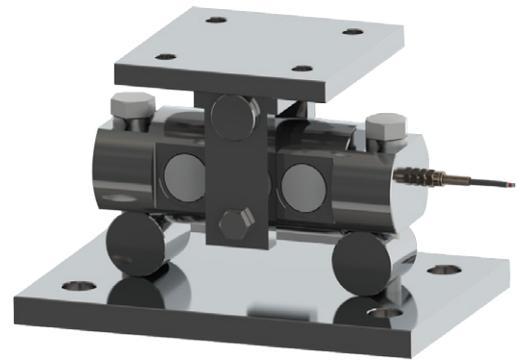
(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

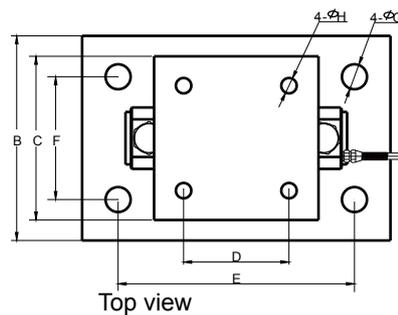
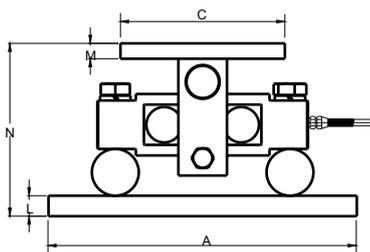
Protection grade: IP67 or IP68.

Protection against total immersion in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE klb	A	B	C	D	E	F	G	H	L	M	N
5~20	11.00	7.50	5.50	3.00	8.00	4.00	1.06	0.63	0.75	0.50	5.48
30~75	15.00	10.00	8.00	5.13	11.50	6.00	1.22	0.75	1.00	0.75	8.43
100~150	18.00	12.00	10.00	7.50	14.00	9.00	1.38	0.81	1.25	1.25	10.39
200	24.00	12.00	12.00	9.00	20.00	9.00	1.88	1.06	2.00	2.00	15.73

## Circuit Diagram

### Electrical Termination

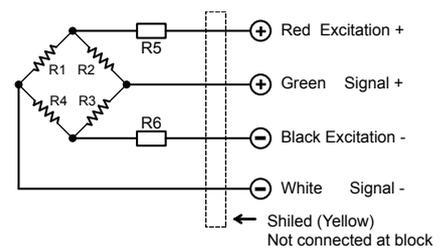
4 Cores cable standard lengths:

<=20klb:5m,30~100klb:12m,>=150klb:16m

Cable Diameter:φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	5,10,20,30,60,100,150,200	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,22,30,45,50,75,100klb

### Rated output:

3.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

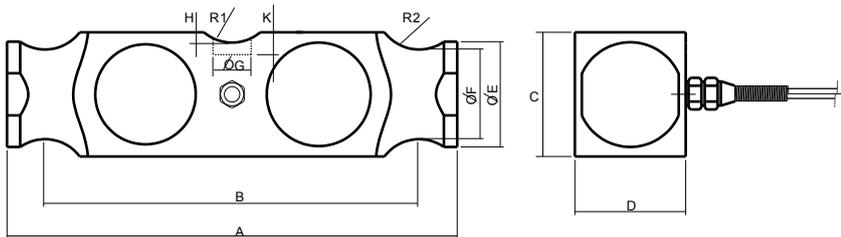
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	B	C	D	E	F	G	H	K	R1	R2
10~45 klbS	260	216	72	64	61	52	22	6	19	25.4	25.4
50~100 klbS	292	254	86	76	70	60	30	10	25	38.1	38.1

## Circuit Diagram

### Electrical Termination

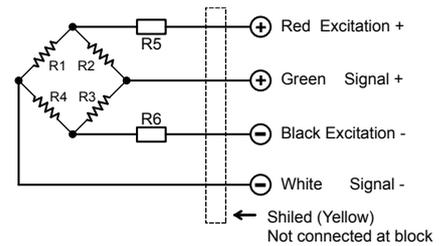
4 Cores cable standard lengths:

<=22klb:5m, >=75klb:12m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,22,30,45,50,75,100	klb
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	3.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,25,30t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

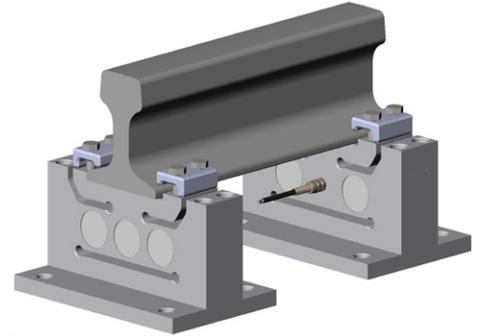
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

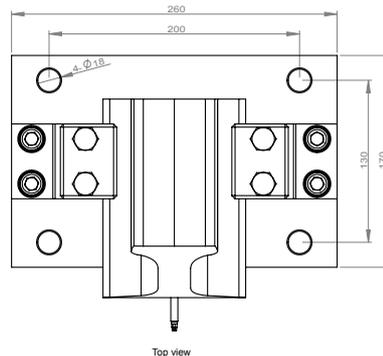
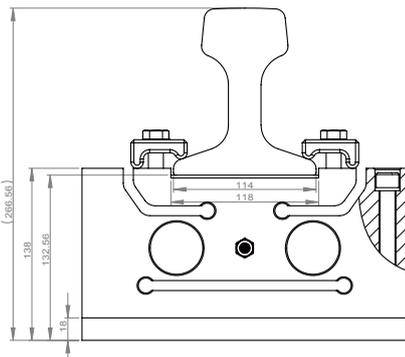
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

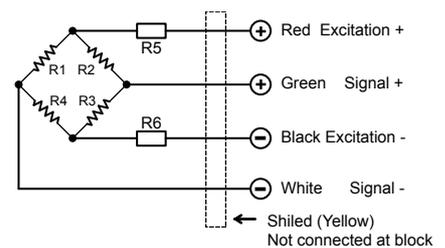
4 Cores cable standard lengths:

<=22klb:5m, >=75klb:12m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,25,30	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,3,5,10,20,30,40,50,60t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

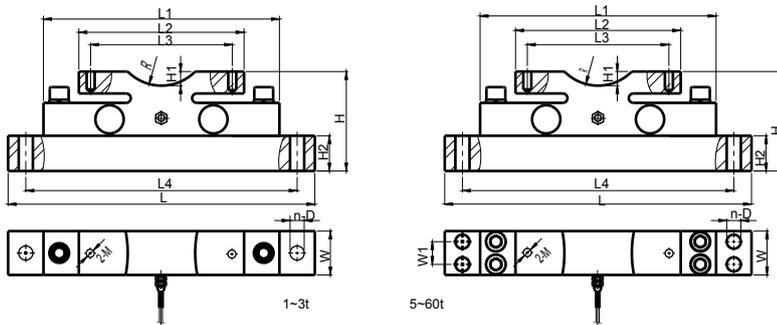
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	L	L1	L2	L3	L4	H	H1	H2	W	W1	M	n-D	R
1,2,3t	320	230	145	120	275	85	18	25	40	-	M12	2-Φ18	60
5,7,10t	310	240	145	120	275	100	18	30	50	25	M12	4-Φ13	60
15,20,30t	390	300	210	180	345	127	20	45	56	29	M16	4-Φ18	80
40,50,60t	500	395	235	200	445	173	21	67	86	45	M20	4-Φ22	90

## Circuit Diagram

### Electrical Termination

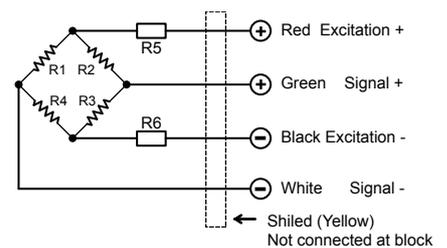
4 Cores cable standard lengths:

<=10t:5m,20~40t:12m,>=50t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,3,5,10,20,30,40,50,60	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,3,5,10t

### Rated output:

2.0mV/V  
4~20mA, 0~5V, 0~10V, Digital

### Grade/Accuracy:

C2 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%

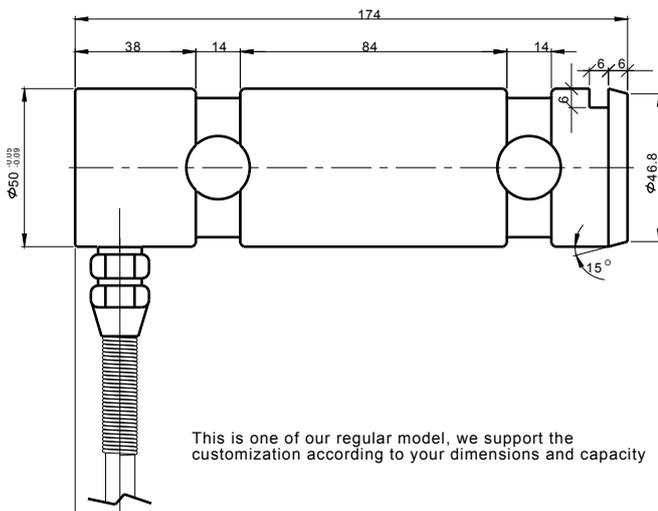
### Sealed to IEC 529:

Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

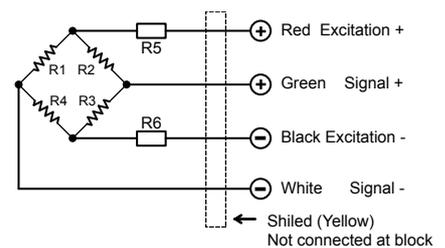
(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

4 Cores cable standard lengths:  
5m  
Cable Diameter:Φ6  
Connection:  
Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C2	Unit
Rated load(Emax):	1,2,3,5,10	t
Maximal numbers of loadcell verification intervals (Nic):	2000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.027	% of rated output
Temperature effect on sensitivity (Tkc):	0.0024	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.002	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.1,0.2,0.3,0.5,1,2,3,5,10t

### Rated output:

2.0mV/V, 3.0mV/V  
Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%

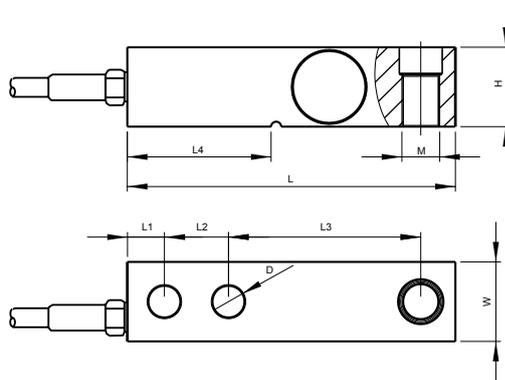
### Sealed to IEC 529:

Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)

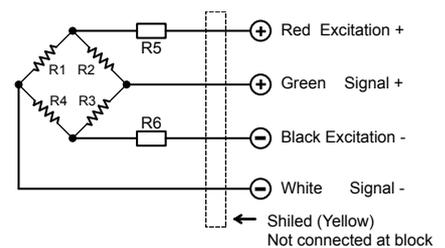


CAP./SIZE	L	L1	L2	L3	L4	W/H	D	M
0.1~0.5t	130	12.7	25.4	76.2	54	31.8	12.7	M12
1~3t	130	12.7	25.4	76.2	54	31.8	12.7	M16
5t	171.5	19.1	38.1	95.3	77	38.1	21	M18*1.5
10t	225.6	25.4	50.8	124	104	50.8	26	M24*2

## Circuit Diagram

### Electrical Termination

4 Cores cable standard lengths:  
<=3t, 3m, 5t: 6m, 10t:8m  
Cable Diameter:Φ6  
Connection:  
Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.1,0.2,0.3,0.5,1,2,3,5,10	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tk):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Ri):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (E<sub>max</sub>)

0.1,0.2,0.3,0.5,1,2,3,5t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

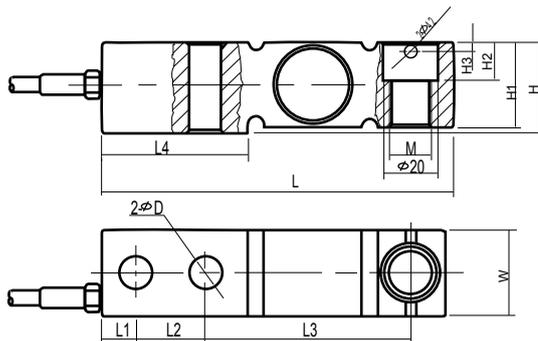
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	L	L1	L2	L3	L4	W/H1	H	H2	H3	D	M
0.1~0.5t	130	12.7	25.4	76.2	54	31.8	33.8	14.2	3.5	12.5	M12
1~3t	130	12.7	25.4	76.2	54	31.8	33.8	14.2	3.5	12.5	M16
5t	171.5	19.1	38.1	95.3	77	38.1	41	16	4.5	21	M18*1.5

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	0.1,0.2,0.3,0.5,1,2,3,5	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>Kc</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>K0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	385 ±10	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Circuit Diagram

### Electrical Termination

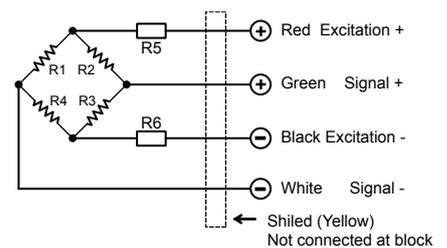
4 Cores cable standard lengths:

<=3t:3m,5t:5m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

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# SQC-M

# Single Beam Load Cell

## Description

### Capacities: (Emax)

0.1,0.2,0.3,0.5,1,2,3,5t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

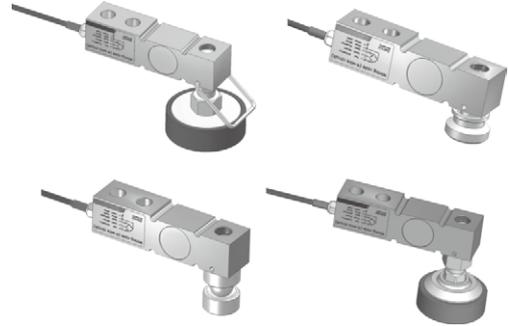
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

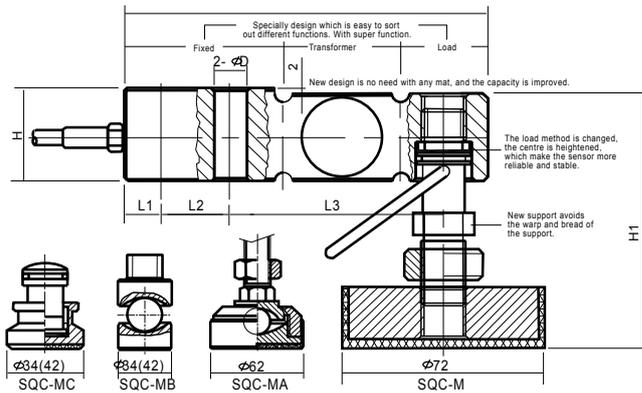
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Note:(xx)are for 5t

CAP./SIZE	L	L1	L2	L3	D	H	H1	H1	H1	H1
							SQC-M	SQC-MA	SQC-MB	SQC-MC
0.1~3t	130	12.7	25.4	76.2	12.7	33.8	74~84	78~88	73.5	59
5t	171.5	19.1	38.1	95.3	20.5	41	82-92	86-96	85	80.8

## Circuit Diagram

### Electrical Termination

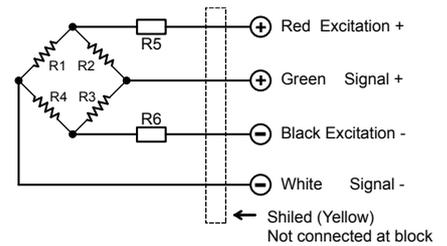
4 Cores cable standard lengths:

<=3t:3m,5t:5m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.1,0.2,0.3,0.5,1,2,3,5	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

**Capacities: (Emax)**  
0.5,1,2,3,5,8,10,20t

**Rated output:**  
2.0mV/V  
Digital:1,000,000d

**Grade/Accuracy:**  
C3 OIML R60

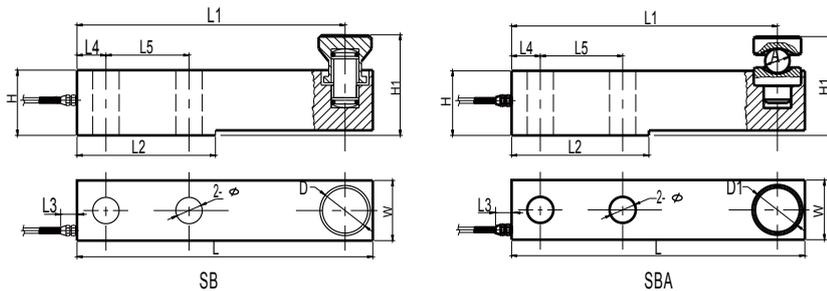
**Material of elastomer:**  
Alloy steel or stainless steel

**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%  
**Sealed to IEC 529:**  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

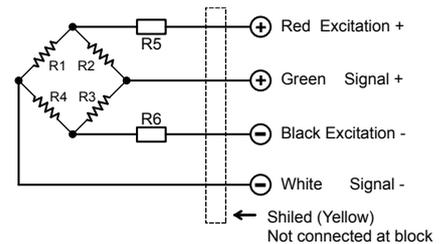
(In mm, 1mm=0.03937inches)



CAP./SIZE	L	L1	L2	L3	L4	L5	H	H1	φ	D	D1	W	A
0.5,1,2,3t	203	181	95	24	19	64	43	57.9	13	35	39	37	15.9
5,8t	235	213	110	24	23	66	52	78.9	21	42	44	48	25.48
10t	279	247	133	24	25	82	67	127.7	28	57	58	60	38.1
20t	318	280	153	24	32	89	82.5	143.5	34	70	69	70	50.8

## Circuit Diagram

**Electrical Termination**  
4 Cores cable standard lengths:  
<=3t:3m, 5~8t:6m, 10t:8m, 20t:10m  
Cable Diameter:φ6  
Connection:  
Refer to the following drawing:



**Note:**  
6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.5,1,2,3,5,8,10,20	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.5,1,2,3,5,8,10,20t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

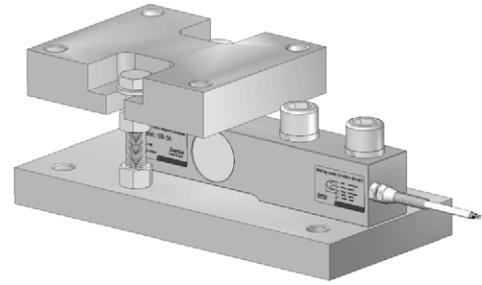
(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

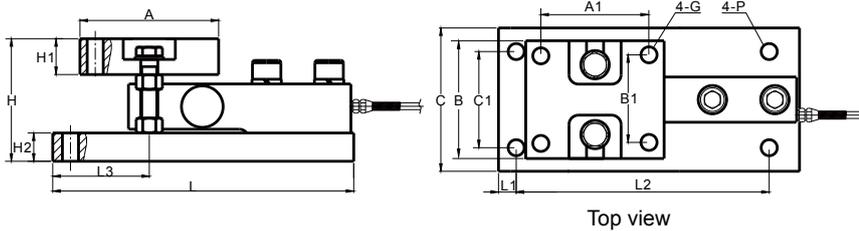
Protection grade: IP67 or IP68.

Protection against total immersion in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	A	A1	B	B1	C	C1	L	L1	L2	L3	H	H1	H2	G	P
0.5,1,2,3t	150	124	128	102	112	80	286	32	226	96	102	28	23	M10	13
5,8t	178	146	152	120	152	102	318	32	257	99	130	38	30	M16	17
10t	184	152	154	122	154	106	360	32	295	105	168	45	45	M20	21
15~25t	220	170	220	170	220	170	400	25	350	115	213	55	55	M24	26

## Circuit Diagram

### Electrical Termination

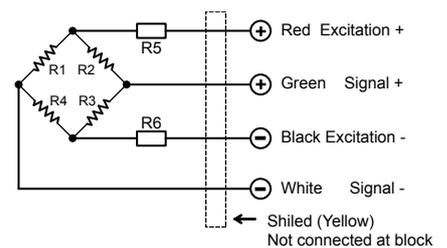
4 Cores cable standard lengths:

<=3t:3m,5~8t:6m,10t:8m,20t:10m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.5,1,2,3,5,8,10,20	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

50,100,200,300,500,1000kg

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

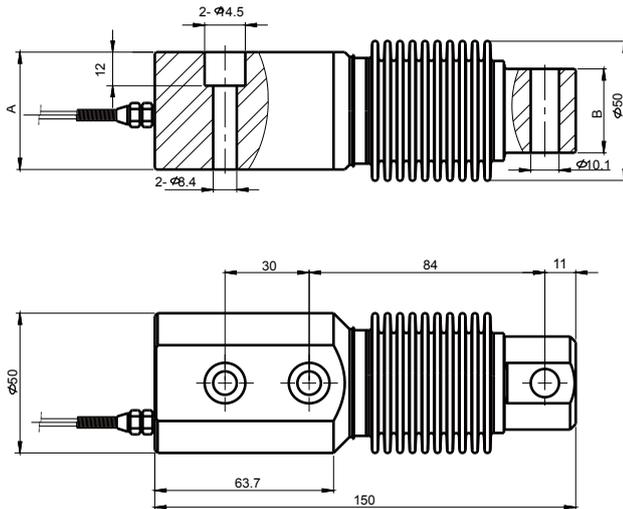
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

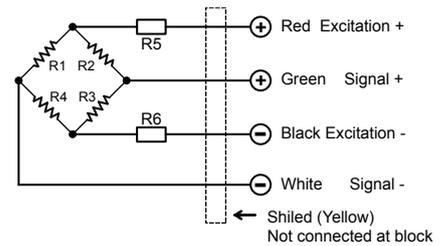
4 Cores cable standard lengths:

3m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	50,100,200,300,500,1000	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

10,20,50,100,200,250kg

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

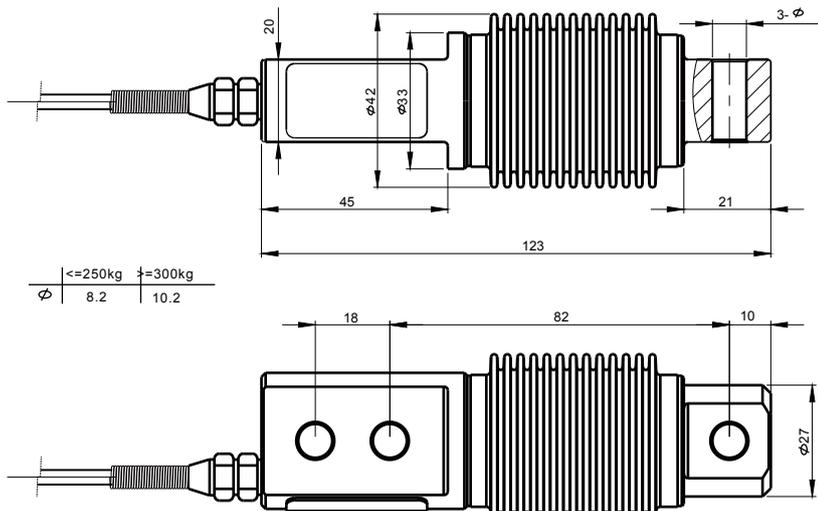
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

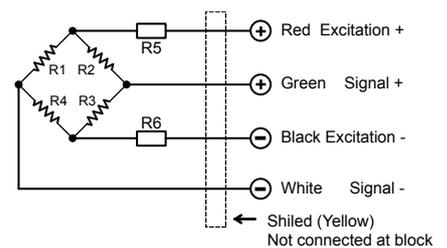
4 Cores cable standard lengths:

3m

Cable Diameter:φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	10,20,50,100,200,250	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.3,0.5,1,2,3t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

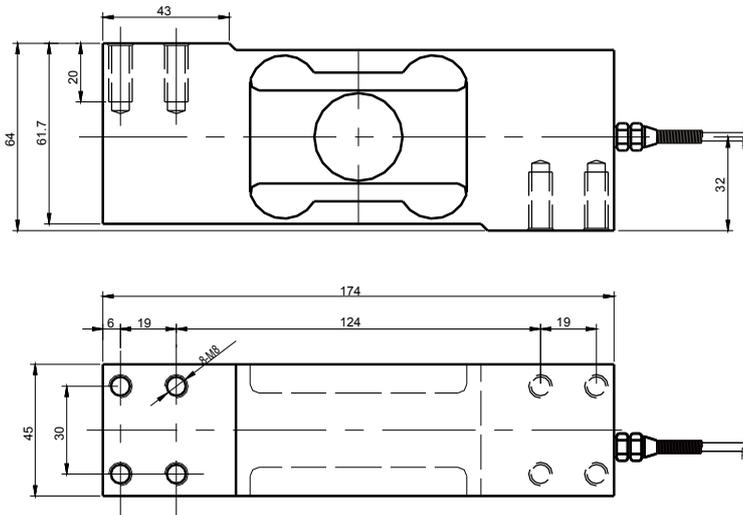
Protection grade: IP67 or IP68.

Protection against total immersion in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

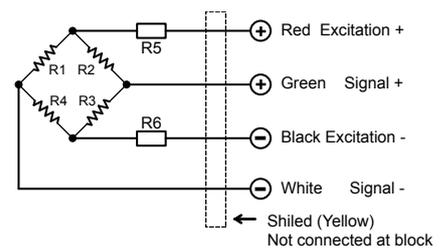
### Electrical Termination

4 Cores cable standard lengths:  
3m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.3,0.5,1,2,3	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

**Capacities: (Emax)**  
20,50,100,200,250,300,500,1000kg

**Rated output:**  
2.0mV/V  
Digital:1,000,000d

**Grade/Accuracy:**  
C3 OIML R60

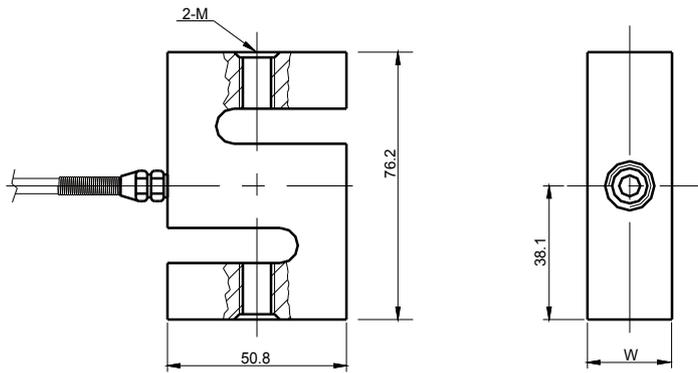
**Material of elastomer:**  
Alloy steel or stainless steel

**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%  
**Sealed to IEC 529:**  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE (kg)	50	100	150	200	250	300	500	1000
W	15	15	15	19	19	19	19	38
M	M8	M8	M8	M12	M12	M12	M12	M16

## Specification

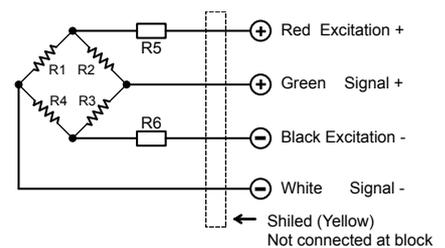
Item/Parameter	C3	Unit
Rated load(Emax):	20~1000	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Circuit Diagram

### Electrical Termination

4 Cores cable standard lengths:  
3m  
Cable Diameter:Φ6  
Connection:  
Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

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## Description

### Capacities: (Emax)

0.5,1,2,3,5,7.5,10,20t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

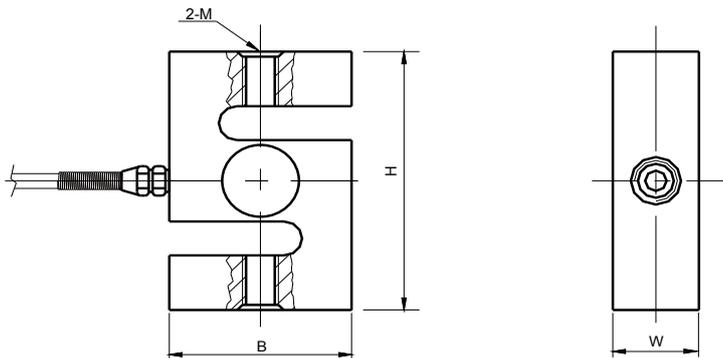
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	H	B	W	M
0.5,1,2,3t	86	64	28	M16
5t	106	80	36	M24*2
7.5,10t	178	130	51	M30*2
15,20t	190	160	60	M39*2

## Circuit Diagram

### Electrical Termination

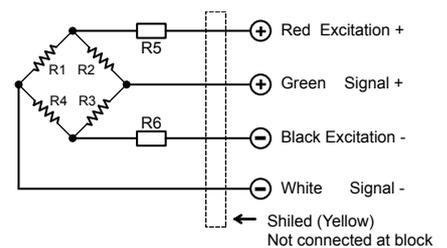
4 Cores cable standard lengths:

<=3t:3m,5t:6m,10t:8m,20t:10m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or else, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.5,1,2,3,5,7.5,10,20	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.5,1,2,3,5,7.5,10,20t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

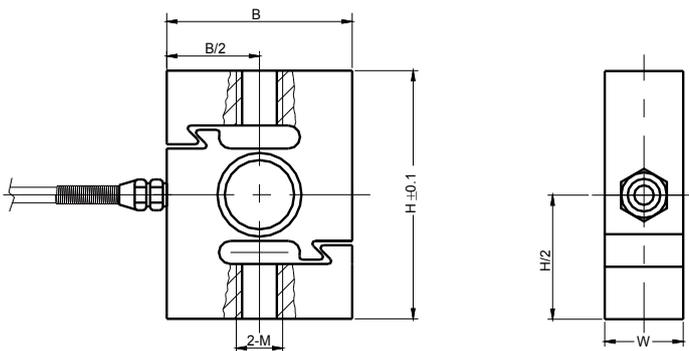
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	H	B	W	M
0.5,1t	80	70	26	M12
2,3,5t	108	96	26	M18*1.5
7.5t	140	110	32	M24*2
10t	178	130	51	M30*2
15,20t	190	160	60	M39*2

## Circuit Diagram

### Electrical Termination

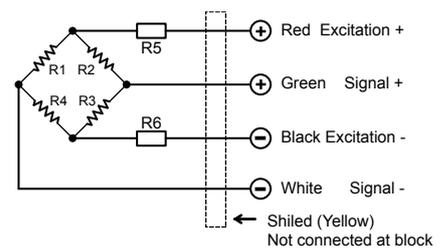
4 Cores cable standard lengths:

<=3t:3m,5t:6m,10t:8m,20t:10m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or else, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.5,1,2,3,5,7.5,10,20	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,5,10,20,30,50,60,100,120t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

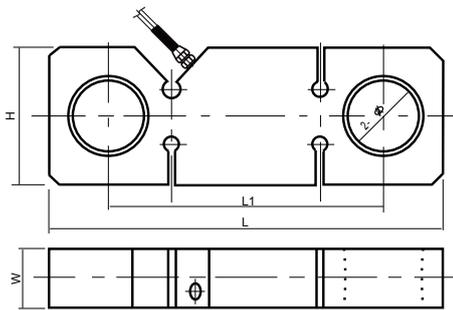
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



CAP./SIZE	L	L1	H	W	ØA	Shackle	Hook
1~5t	230	160	76	34	38	7/8	5/8
10t	280	188	90	47	40	1 1/4	3/4
20~30t	370	230	125	55	53	1 3/4	----
40~50t	430	260	150	65	73	2 1/2	----
60t	430	260	150	85	73	2 1/2	----
100~120t	580	340	220	115	98	3 1/2	----

## Circuit Diagram

### Electrical Termination

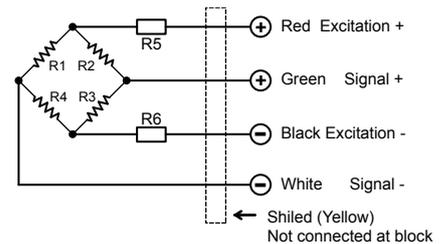
4 Cores cable standard lengths:

<=10t:5m,20~40t:12m,>=50t:16m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or else, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,5,10,20,30,50,60,100,120	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (RiC):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,5,10,20,30,50,60,100,120t

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

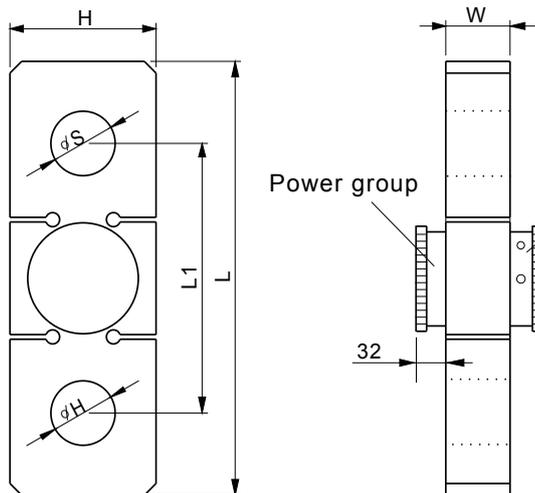
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.

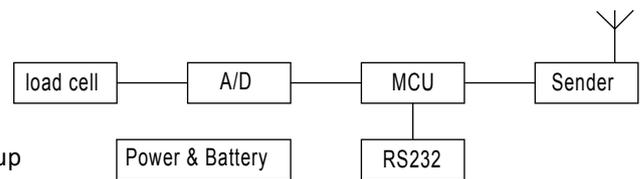


## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram



CAP./SIZE	L	L1	H	W	∅	Shackle	Hook
1~5t	230	160	76	34	38	7/8	5/8
10t	280	188	90	47	40	1 1/4	3/4
20~30t	370	230	125	55	53	1 3/4	----
40~50t	430	260	150	65	73	2 1/2	----
60t	430	260	150	85	73	2 1/2	----
100~120t	580	340	220	115	98	3 1/2	----

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,5,10,20,30,50,60,100,120	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 0.1%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	775 ±10	Ω(Ohms)
Output resistance (Ro):	702 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

1,2,3,5,10,20,30t

### Rated output:

1.75 mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

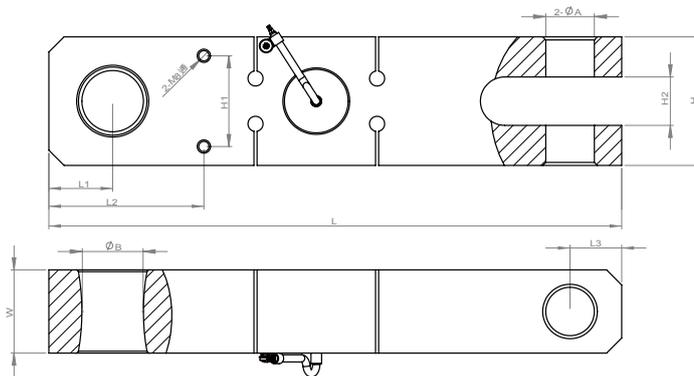
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Cap./Size	L	L1	L2	L3	H	H1	H2	W	ΦA	ΦB
1~3t	336	30	79	26	58	45	24	40	21	30
5t	365	35.5	90.5	27.5	70	50	26	45	25	35
10t	387	42	102	34	85	60	32	55	32	40
15t	418	42	107	44	85	60	35	54	42	44
20t	478	52	127	49	105	70	44	68	51	57
30t	540	70	180	65	140	100	60	80	60	60

## Circuit Diagram

### Electrical Termination

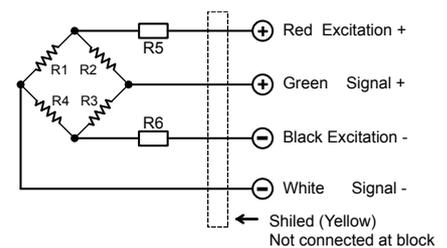
4 Cores cable standard lengths:

0.3m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,3,5,10,20,30	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	1.75 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# GLBS2

# Tension Load Cell

## Description

### Capacities: (Emax)

1,2,3,5,10t

### Rated output:

1.75 mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

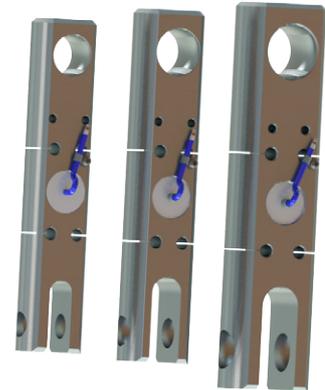
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

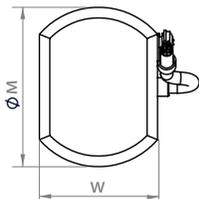
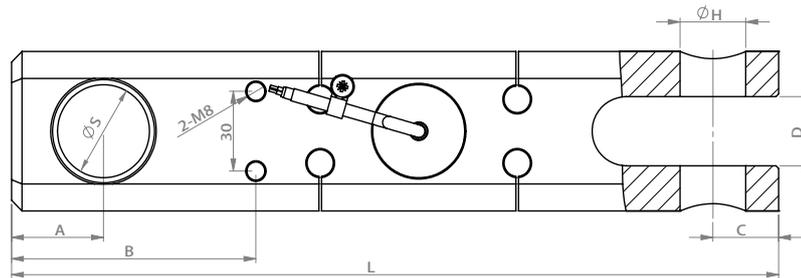
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



Cap./Size	A	B	C	D	L	W	ΦM	ΦH	ΦS
1~3t	30	83	22	24	276	40	55	21	29
5t	35	93	25	26	292	45	60	25	35
10t	40	104	32	32	320	55	76	32	40

## Circuit Diagram

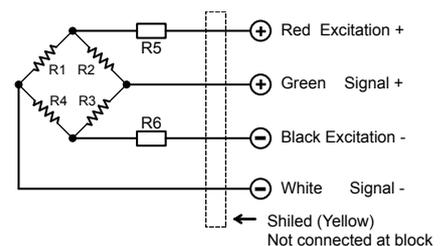
### Electrical Termination

4 Cores cable standard lengths:  
0.3m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	1,2,3,5,10	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	1.75 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (TKc):	0.0012	% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.3,0.5,1t

### Rated output:

1.75mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Alloy steel or stainless steel

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

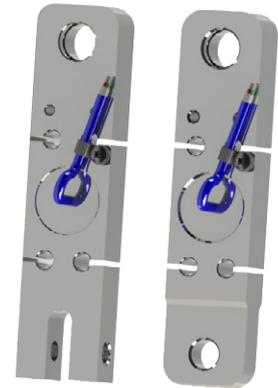
Combined error: 0.015%

### Sealed to IEC 529:

Protection grade: IP67 or IP68.

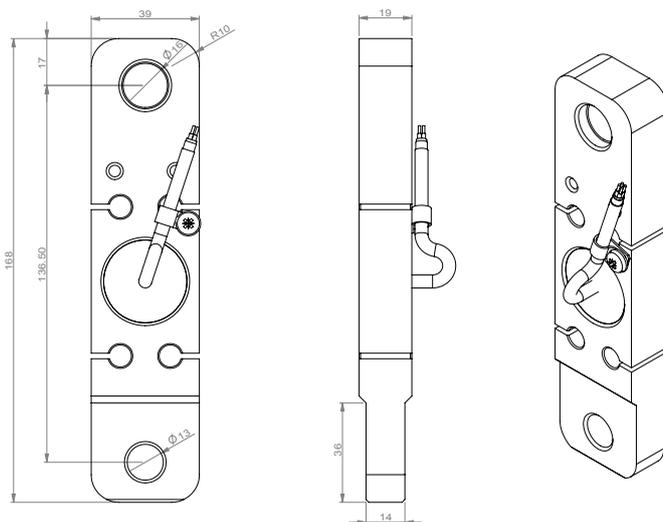
Protection against total immersion

in water for 30 minutes at a pressure corresponding to a 1 m head of water.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

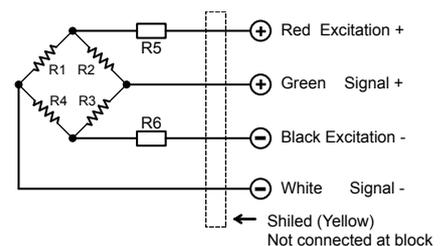
### Electrical Termination

4 Cores cable standard lengths:  
0.3m

Cable Diameter:Φ6

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.3,0.5,1	t
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	1.75 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385 ±10	Ω(Ohms)
Output resistance (Ro):	351 ±2	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70(180 Optional)	°C
Recommend excitation:	5~18	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Alloy Steel / Stainless Steel	
Protection class:	IP67/IP68	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

## Description

### Capacities: (Emax)

0.3,0.5,0.6,1,2,3kg

### Rated output:

1.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Aluminum / Alloy or SS

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

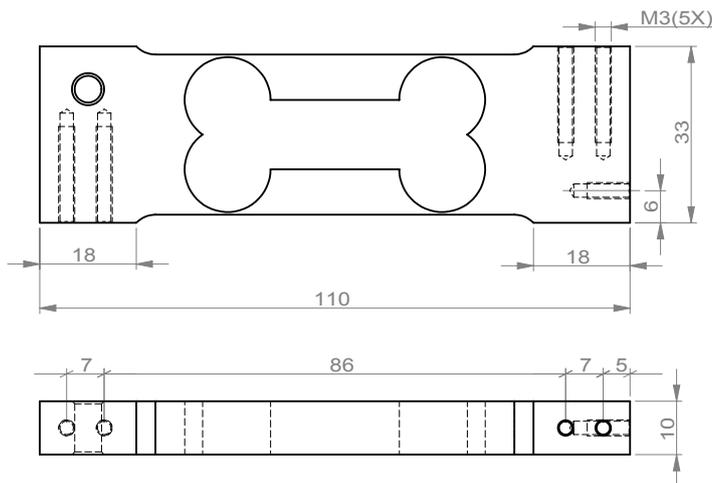
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed,3min minimum.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

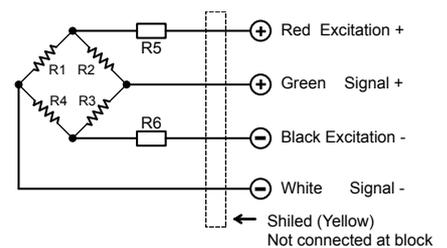
4 Cores cable standard lengths:

0.4m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	0.3,0.5,0.6,1,2,3	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	1.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385	Ω(Ohms)
Output resistance (Ro):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BA601

# Single Point Load Cell

## Description

### Capacities: (Emax)

3,5,6,10,15,20,30,40kg

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Aluminum / Alloy or SS

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

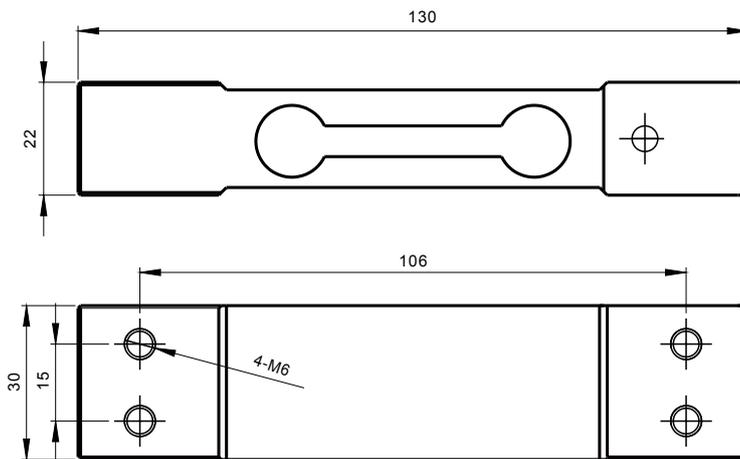
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed, 3min minimum.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

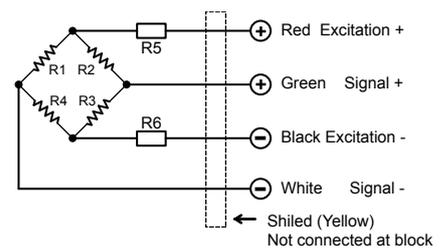
4 Cores cable standard lengths:

0.4m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or less,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(Emax):	3,5,6,10,15,20,30,40	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385	Ω(Ohms)
Output resistance (Ro):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BA602

## Single Point Load Cell

### Description

#### Capacities: (Emax)

2,3,5,10,20,30kg

#### Rated output:

2.0mV/V

Digital:1,000,000d

#### Grade/Accuracy:

C3 OIML R60

#### Material of elastomer:

Aluminum / Alloy or SS

#### Execution standard:

GB/T 7551-2008 Certificate

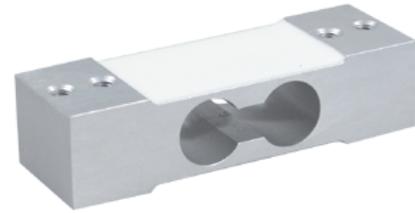
(eqv OIML R60)

Combined error: 0.015%

#### Sealed to IEC 529:

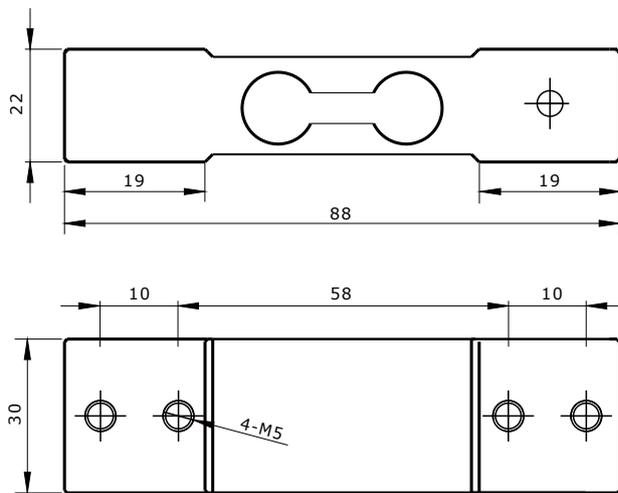
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed, 3min minimum.



### Dimensions

(In mm, 1mm=0.03937inches)



### Circuit Diagram

#### Electrical Termination

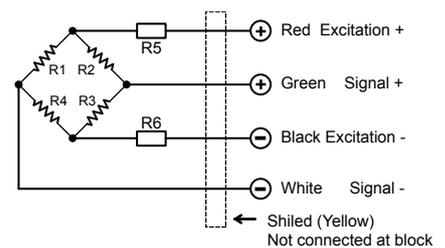
4 Cores cable standard lengths:

0.5m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



#### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

### Specification

Item/Parameter	C3	Unit
Rated load(Emax):	2,3,5,10,20,30	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385	Ω(Ohms)
Output resistance (Ro):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BA629

# Single Point Load Cell

## Description

### Capacities: (E<sub>max</sub>)

50,100,200,300,500kg

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Aluminum / Alloy or SS

### Execution standard:

GB/T 7551-2008 Certificate

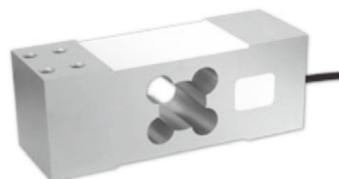
(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

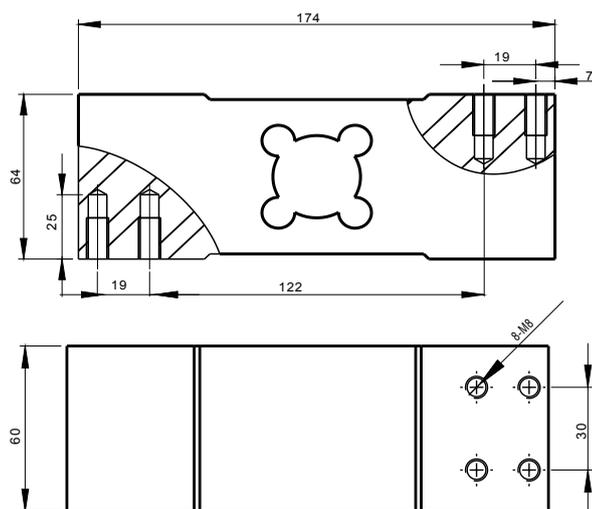
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed,3min minimum.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

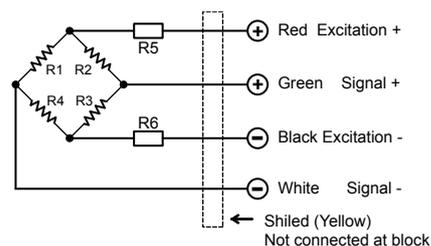
4 Cores cable standard lengths:

2m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	50,100,200,300,500	kg
Maximal numbers of loadcell verification intervals (N <sub>ic</sub> ):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>k</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	385	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

# BA638

# Single Point Load Cell

## Description

### Capacities: (E<sub>max</sub>)

50,100,200,300,500kg

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Aluminum / Alloy or SS

### Execution standard:

GB/T 7551-2008 Certificate

(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

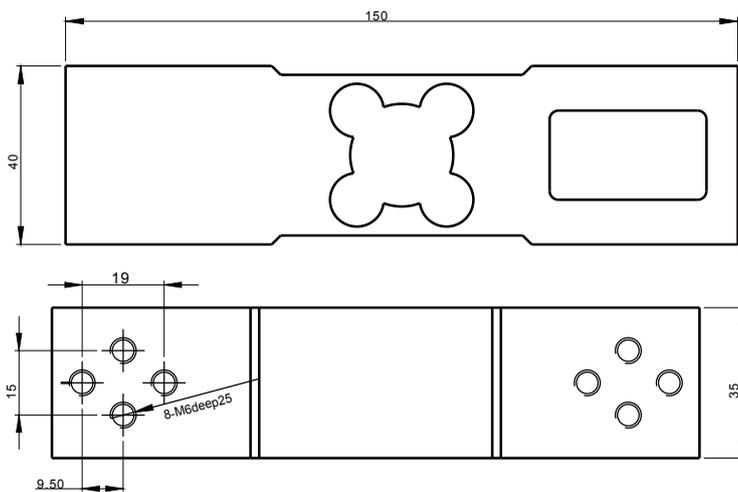
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed,3min minimum.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

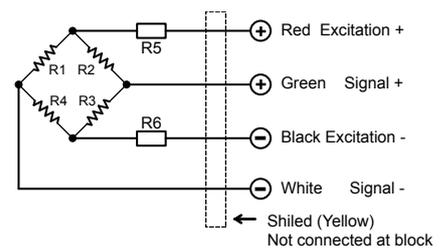
4 Cores cable standard lengths:

2m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	50,100,200,300,500	kg
Maximal numbers of loadcell verification intervals (N <sub>ic</sub> ):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>k</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	385	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

# BA642

## Single Point Load Cell

### Description

#### Capacities: (Emax)

50,100,150,200,250,300kg

#### Rated output:

2.0mV/V

Digital:1,000,000d

#### Grade/Accuracy:

C3 OIML R60

#### Material of elastomer:

Aluminum / Alloy or SS

#### Execution standard:

GB/T 7551-2008 Certificate

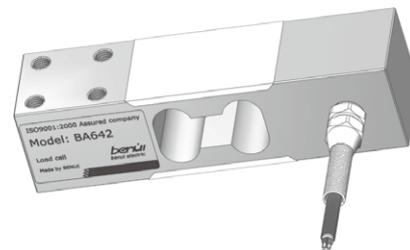
(eqv OIML R60)

Combined error: 0.015%

#### Sealed to IEC 529:

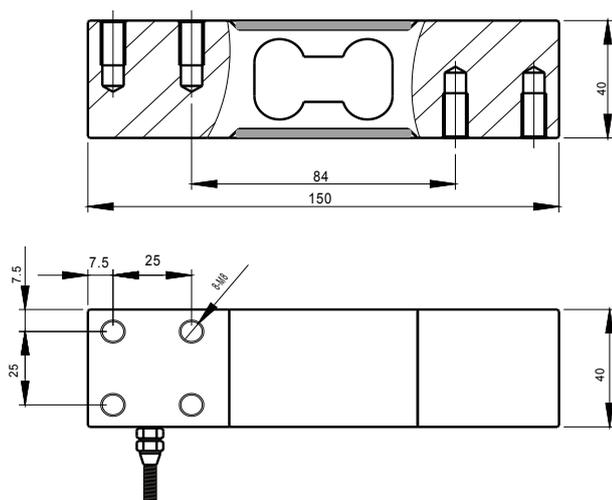
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed,3min minimum.



### Dimensions

(In mm, 1mm=0.03937inches)



### Circuit Diagram

#### Electrical Termination

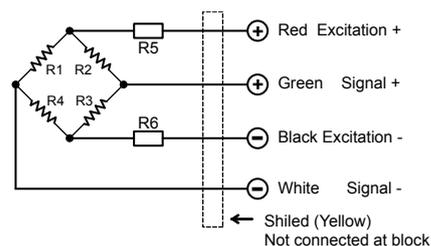
4 Cores cable standard lengths:

2m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



#### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese,  
it will effect the sensitivity of load cell.

### Specification

Item/Parameter	C3	Unit
Rated load(Emax):	50,100,150,200,250,300	kg
Maximal numbers of loadcell verification intervals (Nic):	3000	d
Minimum number of loadcell verification intervals (Vmin)	0.01	% of rated load
Rated output (Cn):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (Tkc):	0.0012	% of rated output/°C
Temperature effect on zero balance (Tk0):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (Rlc):	385	Ω(Ohms)
Output resistance (Ro):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	18	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,Tkc are typical values. The sum of these data meets the requirements according to OIML R60

# BA646

# Single Point Load Cell

## Description

### Capacities: (E<sub>max</sub>)

100,200,300,500,1000kg

### Rated output:

2.0mV/V

Digital:1,000,000d

### Grade/Accuracy:

C3 OIML R60

### Material of elastomer:

Aluminum / Alloy or SS

### Execution standard:

GB/T 7551-2008 Certificate

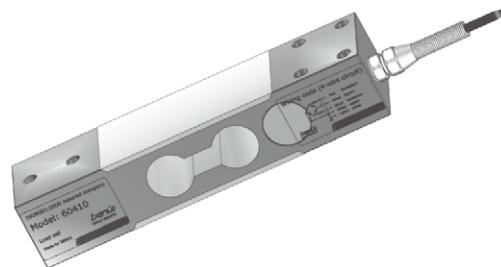
(eqv OIML R60)

Combined error: 0.015%

### Sealed to IEC 529:

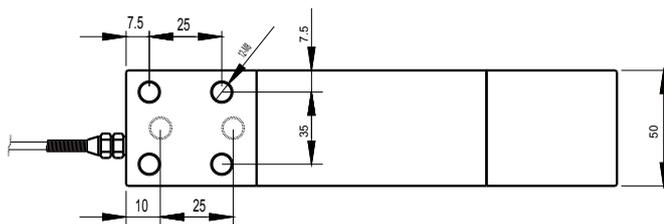
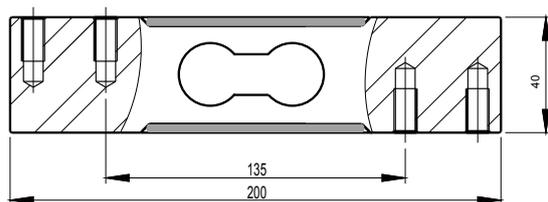
Protection grade: IP66.

Enclosure is sprayed from all practicable directions with a stream of water at 100L/min from a 12.5mm nozzle from a distance of 2.5 to 3m. Test time=1min/m of enclosure surface area to be sprayed,3min minimum.



## Dimensions

(In mm, 1mm=0.03937inches)



## Circuit Diagram

### Electrical Termination

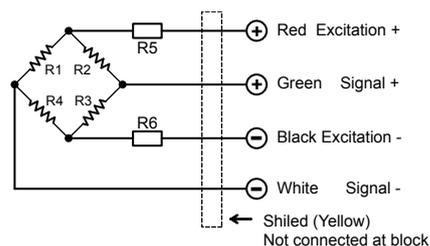
4 Cores cable standard lengths:

2.5m

Cable Diameter:Φ5

Connection:

Refer to the following drawing:



### Note:

6 Cores cable is optional.  
Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item/Parameter	C3	Unit
Rated load(E <sub>max</sub> ):	100,200,300,500,1000	kg
Maximal numbers of loadcell verification intervals (N <sub>ic</sub> ):	3000	d
Minimum number of loadcell verification intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	2.0 ± 5%	mV/V
*Combined error:	0.015	% of rated output
Temperature effect on sensitivity (T <sub>k</sub> ):	0.0012	% of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.0008	% of rated output/°C
Zero balance:	1.0	% of rated output
Input resistance (R <sub>ic</sub> ):	385	Ω(Ohms)
Output resistance (R <sub>o</sub> ):	351	Ω(Ohms)
Insulation resistance:	≥5000	MΩ(Mega-Ohms)
Safe overload:	150%	% of rated capacity
Operating temperature range:	-20~+70	°C
Recommend excitation:	5~12	V( DC or AC)
Maximum excitation:	24	V( DC or AC)
Material of elastomer:	Aluminum / Alloy or SS	
Protection class:	IP65/IP66	

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The data for deviation of synthesis error,TK0,TKc are typical values. The sum of these data meets the requirements according to OIML R60

# QDI-11-SS

# Truck Scale Indicator

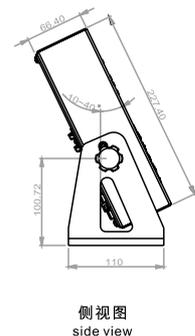
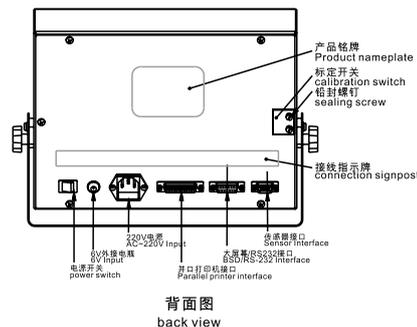
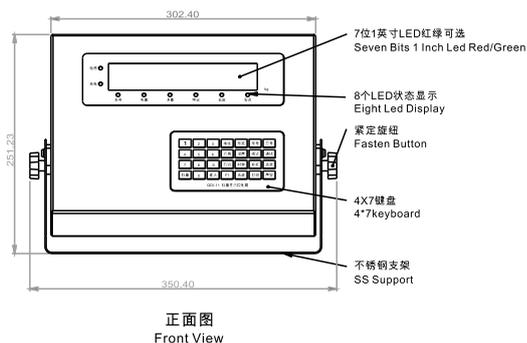
## Description

- Double independent power design
- Perfect protection circuit
- Protection circuit to avoid Lighting
- Independent research and development of Multitask operating system
- Fast reading ,road load cell 96 times every second
- Double smart filtering design and stably
- All indicators passed 10,000times power off and aging test



## Dimensions

(In mm, 1mm=0.03937inches)



## Specification

Resolution:	10,000 or 100,000 d (Options)
Conversion Speed:	10, 20 or 40 samples (Options)
Sensitivity:	0.5 $\mu$ V/Vsi
Full Scale Range:	4.5mV/V
Linearity:	0.01% of full scale
Excitation:	+5VDC with sense (4/6 wires)
Number of Cells:	Up to 16, 350 ohm load cells
Count By:	x1, x2, x5, x10, x20, x50
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, store in EEPROM
Operating Temp:	-10°C to +40°C [14°F to 104°F]
Storage Temp:	-10°C to +70°C [-4°F to 158°F]
Relative Humidity:	40-90% RH, non-condensing
Display:	7 digit, 7-segment, LED, 0.8"
Status Enunciators:	ON/OFF, Hold, Func, SUM, kg/lb, Tare, Zero
Keyboard:	7 key touch switch
Voltage:	110 or 220VAC adapter
Power:	12W
Serial Communication:	RS232
Baud Rate:	1200 - 19, 200 baud, full duplex

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# QDI-11-ABS

## Truck Scale Indicator

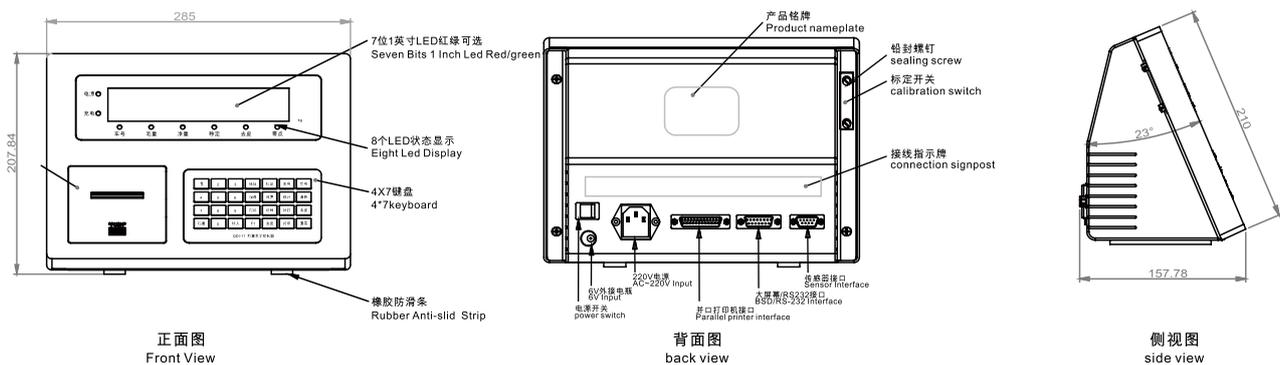
### Description

- Double independent power design
- Perfect protection circuit
- Protection circuit to avoid Lighting
- Independent research and development of Multitask operating system
- Fast reading ,road load cell 96 times every second
- Double smart filtering design and stably
- All indicators passed 10,000times power off and aging test



### Dimensions

(In mm, 1mm=0.03937inches)



### Specification

Resolution:	10,000 or 100,000 d (Options)
Conversion Speed:	10, 20 or 40 samples (Options)
Sensitivity:	0.5 $\mu$ V/Vsi
Full Scale Range:	4.5mV/V
Linearity:	0.01% of full scale
Excitation:	+5VDC with sense (4/6 wires)
Number of Cells:	Up to 8, 350 ohm load cells
Count By:	x1, x2, x5, x10, x20, x50
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, store in EEPROM
Operating Temp:	-10°C to +40°C [14°F to 104°F]
Storage Temp:	-10°C to +70°C [-4°F to 158°F]
Relative Humidity:	40-90% RH, non-condensing
Display:	6 digit, 7-segment, LED, 0.8"
Status Enunciators:	ON/OFF, Hold, Func, SUM, kg/lb, Tare, Zero
Keyboard:	7 key touch switch
Voltage:	110 or 220VAC adapter
Power:	5W
Serial Communication:	RS232 (USB-B)
Baud Rate:	1200 - 19, 200 baud, full duplex

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# BSA-207

## Bench Scale Indicator

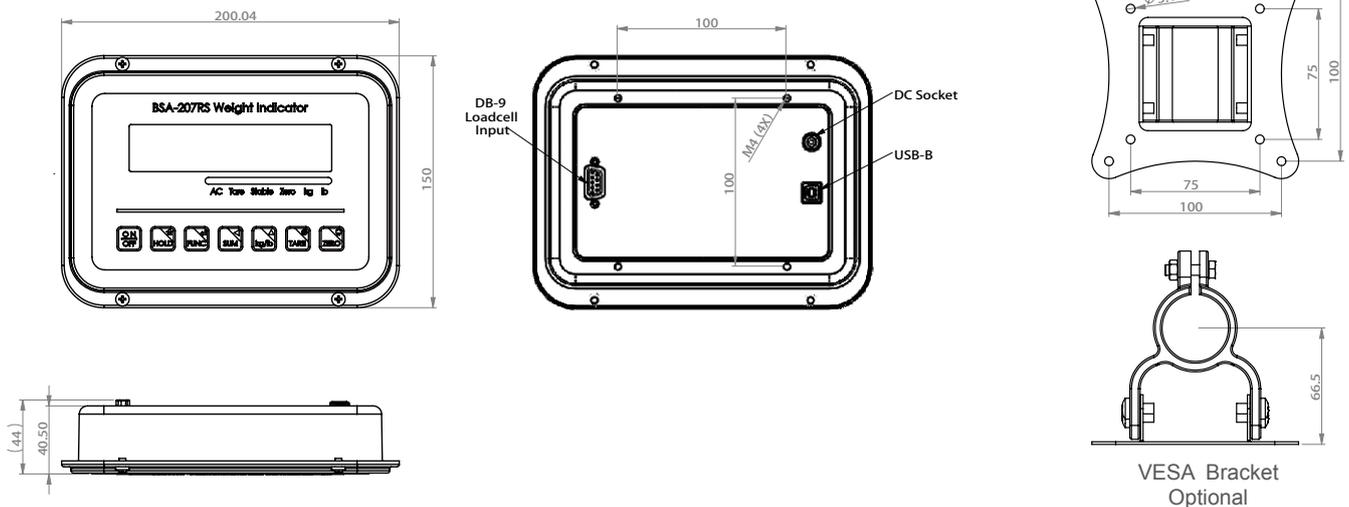
### Description

- Economical general-purpose weighing indicator
- Stainless steel enclosure
- 6 digit 0.8" LED display
- USB weighing string
- High-Speed 24 bit AD
- 100,000d
- 4 level digital filtering
- Weight, Count, Volume, and Alarm working mode
- Large capacity lithium battery built-in
- Adjustable VESA bracket



### Dimensions

(In mm, 1mm=0.03937inches)



### Specification

Resolution:	10,000 or 100,000 d (Options)
Conversion Speed:	10, 20 or 40 samples (Options)
Sensitivity:	0.5 $\mu$ V/Vsi
Full Scale Range:	4.5mV/V
Linearity:	0.01% of full scale
Excitation:	+5VDC with sense (4/6 wires)
Number of Cells:	Up to 8, 350 ohm load cells
Count By:	x1, x2, x5, x10, x20, x50
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, store in EEPROM
Operating Temp:	-10°C to +40°C [14°F to 104°F]
Storage Temp:	-10°C to +70°C [-4°F to 158°F]
Relative Humidity:	40-90% RH, non-condensing
Display:	6 digit, 7-segment, LED, 0.8"
Status Enunciators:	ON/OFF, Hold, Func, SUM, kg/lb, Tare, Zero
Keyboard:	7 key touch switch
Voltage:	110 or 220VAC adapter
Power:	5W
Serial Communication:	RS232 (USB-B)
Baud Rate:	1200 - 19,200 baud, full duplex

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# OLC-318

# Overloading Limiter Controller

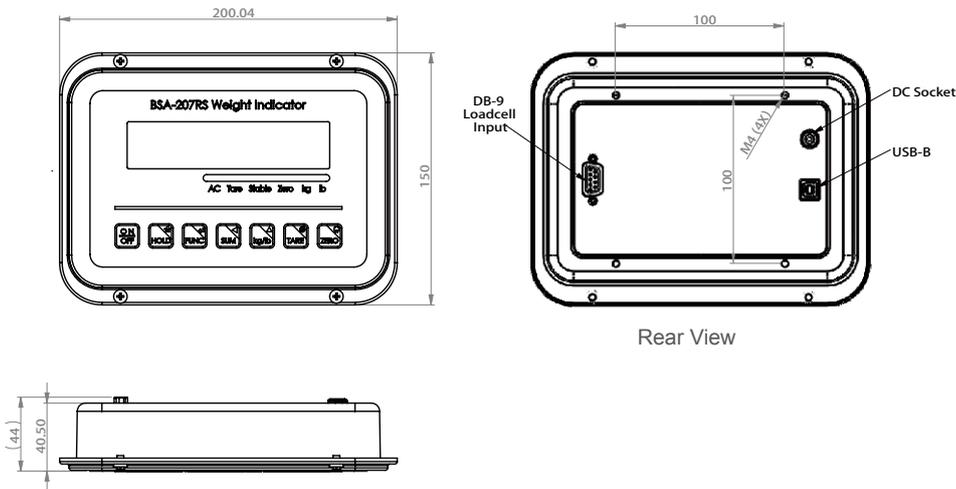
## Description

- Anti-interference and Reliable Operation
- Zero Tracking
- Low Power Consumption
- 110~380V AC
- Simple Direct Connection
- Supported Multi-load cells
- Heavy Relay
- Settable Threshold Value
- High Cost Performance



## Dimensions

(In mm, 1mm=0.03937inches)



## Specification

Accuracy:	1% F.S
Conversion Speed:	20, 40 or 100 samples (Options)
Sensitivity:	1.0 $\mu\text{V}/\text{Vsi}$
Full Scale Range:	4.5mV/V
Linearity:	0.5% of full scale
Excitation:	+5VDC with sense (4/6 wires)
Count By:	x1, x2, x5, x10, x20, x50
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, store in EEPROM
Relay Capacity:	3A 250V
Relay Mode:	Normal Opened/Closed (Options)
Buzzer:	$\geq 90\text{dB}$
Display:	4 digit, 7-segment, LED, 0.8"
Keyboard:	4 key touch switch
Voltage:	110 or 220VAC adapter
Power:	5W
Operating Temp:	-10°C to +40°C [14°F to 104°F]
Storage Temp:	-10°C to +70°C [-4°F to 158°F]
Relative Humidity:	40-90% RH, non-condensing

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## Description

### Worldwide licence exempt:

2.4GHz operating frequency  
433 MHz is optional

**Range Min:** not less than 100m

### Battery working life:

Active not less than 36 hours  
(full charge and turn off backlight)

### Display:

LCD 128\*64 with backlighting  
show weight value: 6 bit  
show working life of battery  
show strong of signal



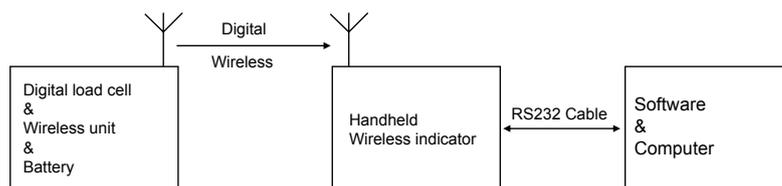
### Hold on the peak value

### Weighing string by RS232

## Work Theory

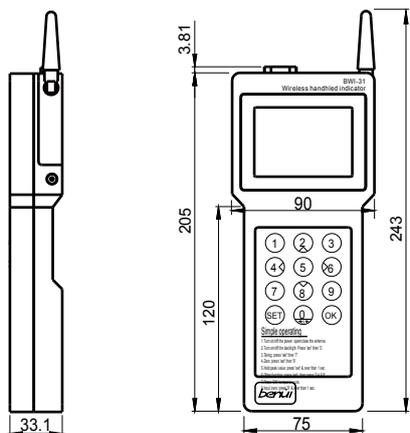
(In mm, 1mm=0.03937inches)

First, the load cell's output signal is digital, with digital compensation and temperature compensation. Though 2.4G wireless module to launch and will be responding once handheld sending commands, so this is duplex working type, also handheld has a port to output weighing string by RS232.

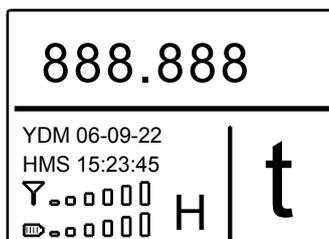


Handheld receive load cell output and its internal battery power consumption values then show them on the LCD display, and handheld through the RS232 output to a computer or large-screen display. If necessary, Multi-channel working is optional, one handheld can be connected to up to 16 sensors.

## Dimensions



OS Language:  
English  
Russia  
Chinese  
Other is developable



Display



Keypad



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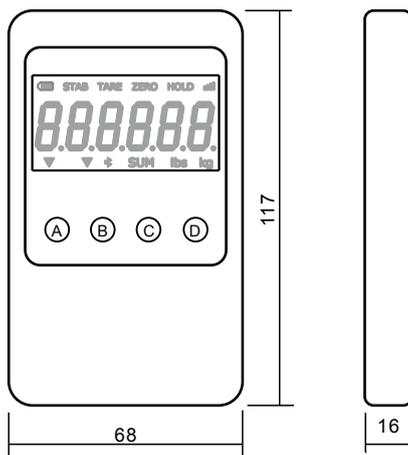
### Description

- Light weight design
- Long working distance
- Multiple status indicator lamps
- 6 bit of LCD for weight value
- Rechargeable battery
- Power save mode  
Auto Off/Sleep  
Remote Off/Awakening
- Immediate Stabilizing
- The Casing color is optional, and OEM is offered



### Dimensions

(In mm, 1mm=0.03937inches)



#### Notices:

1. Wireless distance  $\geq 200m$
2. LED display is optional
3. Customization is offered
4. OEM is offered

### Specification

### Copyright

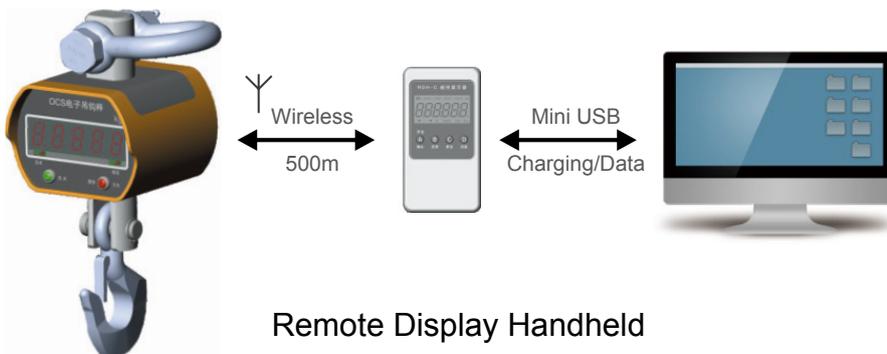
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Remote Display Handheld

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## Description

### Input:

Analog 1~3mV/V  
Input resistance:350~1500 ohms

### Output:

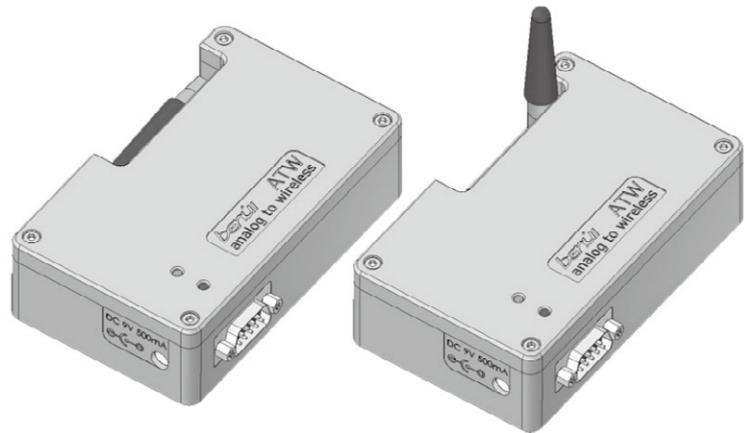
Wireless  
Digital: 30,000 or 100,000d.

### Worldwide licence exempt:

2.4GHz operating frequency  
433MHz is optional

### Range Min:

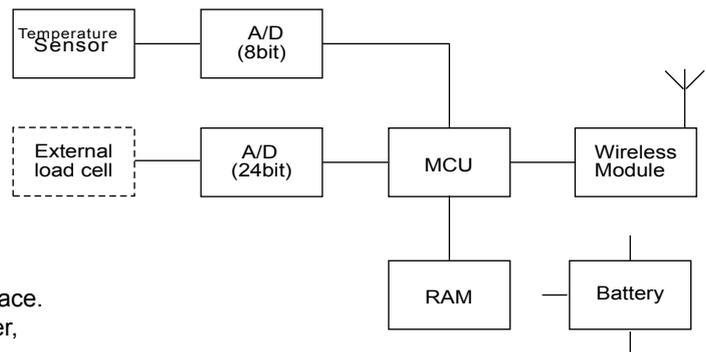
Not less than:100m



## Work Theory

### Electrical Termination

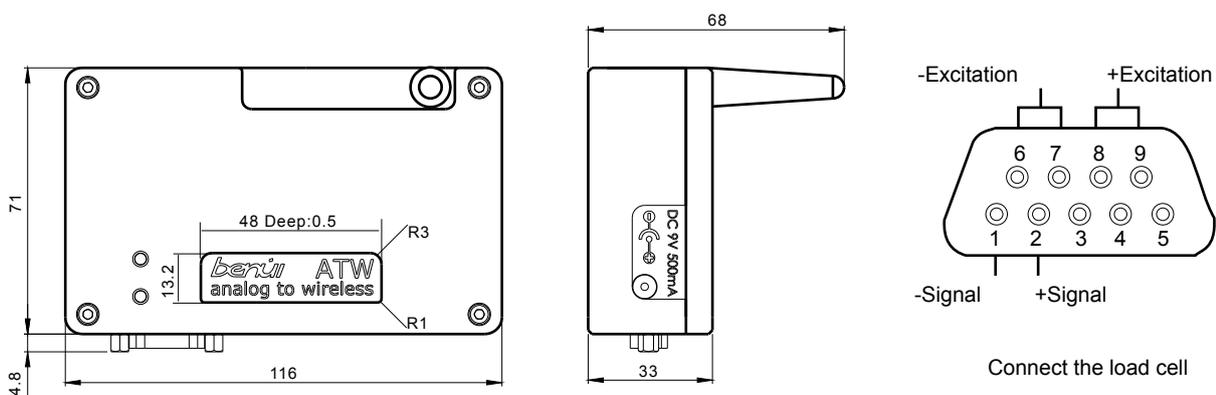
Worldwide licence exempt:  
2.4GHz operating frequency  
Range Min: not less than100m  
Battery working life: Active not less than 70 hours (full charge)  
Battery type: Li-ion Rechargeable



### Notices:

Do not use the wireless load cell in explosive and unsafe place.  
The wireless range will be affected when in different weather, the load cell with the indicator in different place, orientation or obstruct from. For charger : according to Li-ion battery.  
Do not over discharge!

## Dimensions



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# ATC-108A

## Digital Convertor

### Description

Input of analog load cells:  
1~3mV/V,300~2000 Ohms.Device power up  
to 12 psc 350 Ohms load cells.

Output:standard RS232,  
Can connect to PC directly

Light insulation protection

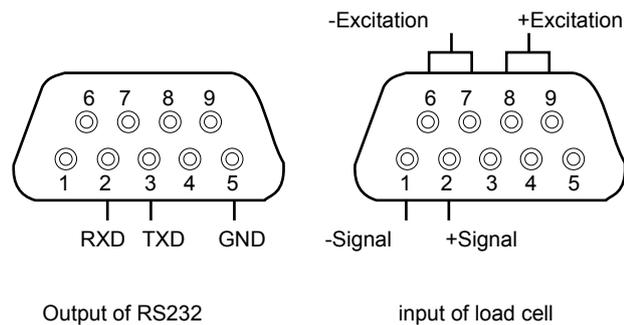
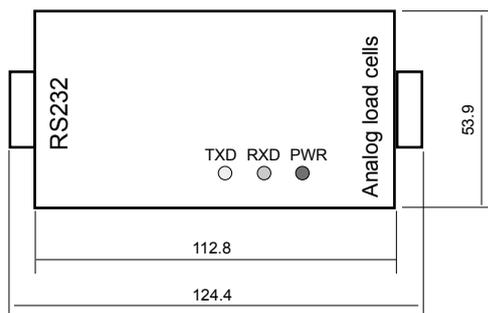
Non-linearity compensation and filter treatment

Exterior led show working order



### Dimensions

(In mm, 1mm=0.03937inches)

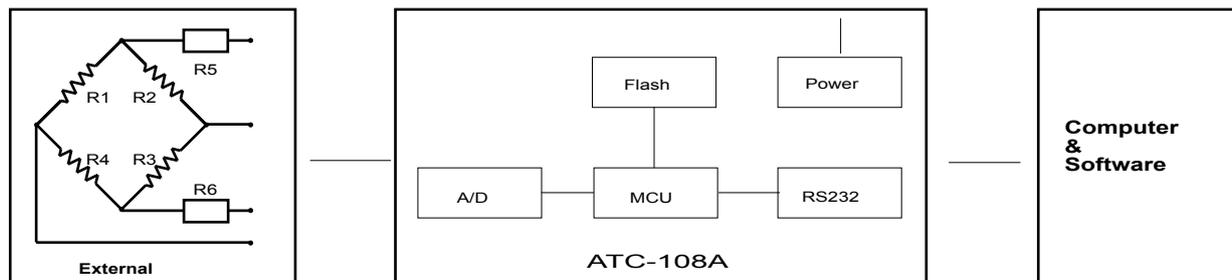


### Work Theory

This is a based weighting solution,It can be used for either analog strtic weighing.No need the indicator,and it has a low cost.Usually,it connects the junction box between the computer.

The signal of some analog load cells will be magnified after analog adding by the junction box,which will be dealt with by MCU after A/D conversion,then will output to PC by RS232 module.

Please refer to following picture.



Note:Multi-load cells should connect junction box then connect to ATC-108A.



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### Description

- Standard with Intel Atom Dual-core processor 2.4G
- Fanless
- High brightness, Wide view angle IPS TFT panel
- Touch screen
- Built in W-Lan Antenna (802.11b/g/n),Dual Band
- Ultra slim metal design
- Stainless Steel Encloser (Optional)
- RS232 Ports (2)
- Soft Development Kit/Tools FREE
- Truck Scale Soft FREE (VA-3.0)



### Specification

Panel Data		Specification	
Panel Size	15 inch 1024*768 TFT	CPU	Intel® 2.4G, Fanless
Touch type	p4 resistive touch		
Brightness (nits)	400cd/m <sup>2</sup>	Memory	4GB(Optional)
Contrast	700:1		
View Angle	wide view angle	Hardisk Interface	32GB(Optional)
Sensitive	<10ms		
LCD Color	16.7M colors	Network	Realtek TRL 8111E Gigabit Ethernet controller
Life time	single-point 10000000 times, Draw lines 100000 times	WIFI	802.11b/g/n,Wireless N Technology Dual Band
Interface			
VGA	1	Power supply	DC 12V input
HDMI	1	Operating temperature	-10 °C~ 60°C
USB	2	Storage temperature	-30 °C~ 80°C
Audio Out	1	Working Humidity	5%-95%, 40°C,Non-condensing
LAN	1		
MIC in	1		
S/PDIF	1	Installation ways	Vesa bracket
COM	2	Accessories	Power adaptor,Driver Disk, Certificate, touch pen, screws
POWER DC	1		



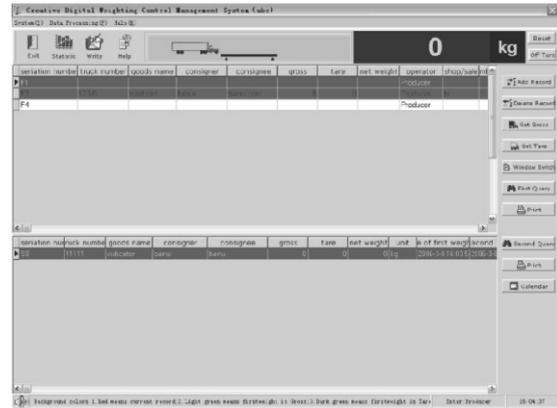
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## Description

- **Operating system:** Windows 2000,XP, Windows7
- **CommunicationInput:** RS485-RS232  
Max transmission distance is 1.2 km  
Output: RS232 for large display  
Network card for share data
- **Expansion :**  
Telecommuting by internet Monitor video  
or photoIntelligent cardTraffic light or infrared



## Functional block

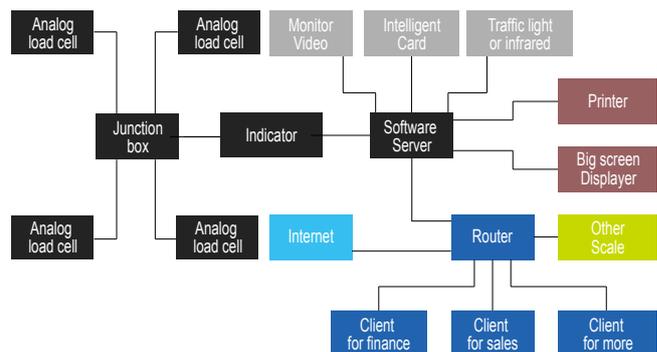
There is a option for using digitalload cells with digital indicator or using analogue load cells with analogue indicator.

Most of our indicators can connect with this software by RS232, because they r using same protocol.

Indicator sends the real weight to PC, PC will save real weight and other information except for readable available data, used for statistic, analy and query.

Printer and big screen displayer can be available in this system, and moreover equip with standard output.

On the base, you can also choose trafic light, monitor video and intelligent card. Or you can work with another scale and share with the same data. Make multi-scales work together. Of course, all above function can be available.If you build internet constructure, so clients can visit and deal with data by net.



- This part is basal,the model of software corresponding is VA-3.0E.
- This part is optional,the model of software corresponding is VA-3.0E-V.
- This part is optional,at the same time, It needs one or more software for clients,the model of software corresponding is VD-3.0E-L . The client soft is VA-3.0E-LG.
- This part is optional, at the same time, It needs one or more software for clients,the model of software corresponding is VD-3.0E-I . The client soft is VA-3.0E-IG.

If you want to add other functions , we can develop them according to your requirement.

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## Description

**Operating system:** Windows 2000,XP, Window7

### Communication:

Input: RS485-RS232

Max transmission distance is 1.2 km

Output: RS232 for large display

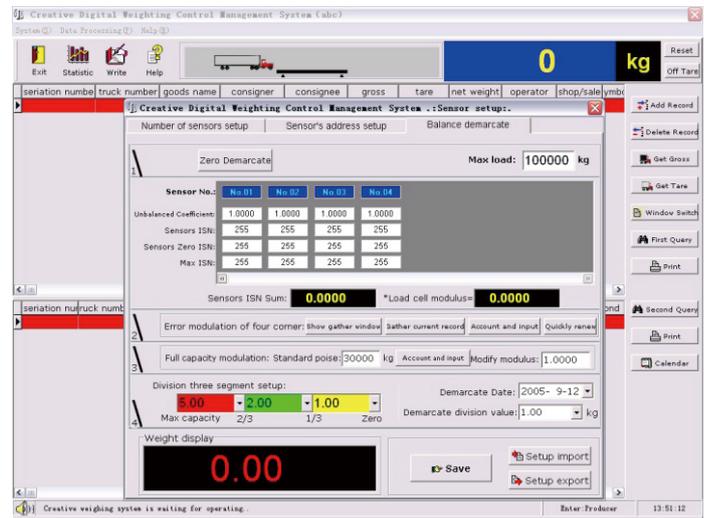
Network card for share data

### Expansion:

Telecommuting by internet Monitor video or photoIntelligent cardTraffic light or infrared

### Extraordinary function:

Can show detail of anyone load cellAdjust come error automaticallyDivision automatically



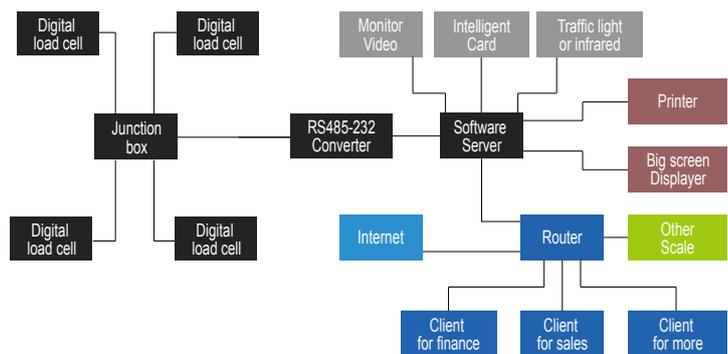
## Functional block

PC sends injunction to respective digital load cell by RS485-232 and junction box, then feedback data to PC, after counting, will display the real weight of scale, this is basically complete weighing process.

PC will save real weight and other information except for readable available data, used for statistic, analyze and query.

Printer and big screen displayer can be available in this system, and moreover equip with standard output.

On the base, you can also choose traffic light, monitor video and intelligent card. Or you can work with another scale and share with the same data. Make multi-scales work together. Of course, all above function can be available. If you build internet constructure, so clients can visit and deal with data by net.



- This part is basal, the model of software corresponding is VD-3.0E.
- This part is optional, the model of software corresponding is VD-3.0E-V.
- This part is optional, at the same time, it needs one or more corresponding software for clients, the model of software corresponding is VD-3.0E-I. The client soft is VD-3.0E-IG.
- This part is optional, at the same time, it needs one or more corresponding software for clients, the model of software corresponding is VD-3.0E-L. The client soft is VD-3.0E-LG.

If you want to add other functions, we can develop them according to your requirement.



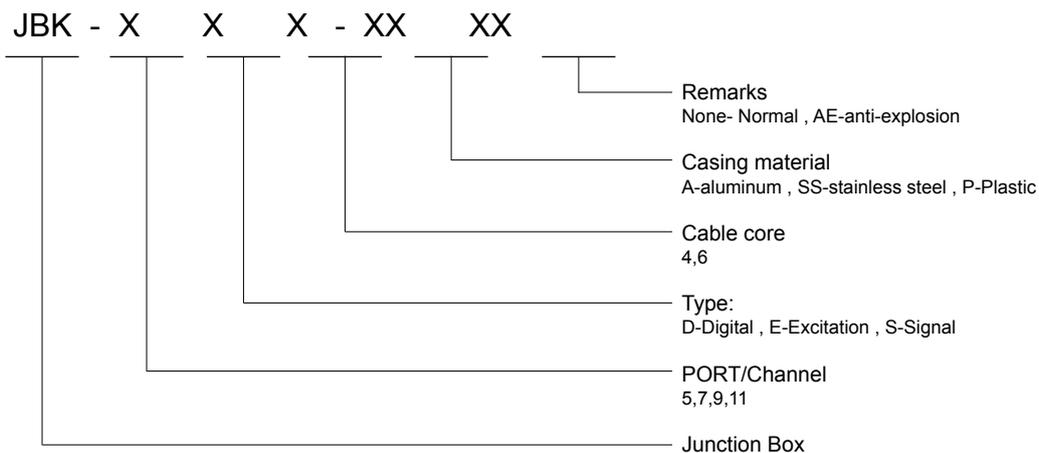
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## Description

- 304 Stainless steel, punch forming
- All products are with surge protection
- Using high-accuracy and Low temperature drift resistances
- Using stainless steel bolts



## Naming rule



Sample  
JBK-5D4-SS: 5 channels digital 4 cores junction box

## Specification

Max.permissible voltage: 18V

Nominal temperature range :

-10~50 °C

-40~212 °F

Cable diameter :  $\Phi 5\sim\Phi 7$ mm

Protection class according to IEC529 : IP67

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## Description

Auxiliary display for weighing device by viewing weighing result from long distance. Auxiliary display for weighing system by connecting with computer with matching output format. Weighing indicator should be equipped with corresponding communication interface to connect with scoreboard.

- Dynamic scan flip-latching technology
- Static and dynamic scan flip-latching technology
- High-lighted digital segment and broad eyesight
- Gross or net weight display from indicator or other output system



## Dimensions

(In mm, 1mm=0.03937inches)

Size inch	Character height mm	LED bit	Housing dimensions mm
3"	75	6	540*180*55
5"	175	6	780*260*58
8"	200	6	1000*500*70

## Specification

Power:220ACV@50Hz  
 Communication interface:current loop way/RS232  
 Operating temperature:0-40°C

Operating humidity:≤85%RH

Nonstandard Function( Optional):  
 Stainless steel housing is optional  
 Waterproof is optional  
 Connection to PC function  
 (Output format of PC is offered by customer)  
 Connection to other indicator function  
 (Corresponding manual for indicator or sample is offered)

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## Description

- **Wire cable** 4 and 6 wire cable
- **Length:**20m or 100m
- **Low capacity** ,high capacitive symmetry
- **In according** to Benui colour code



## Specification

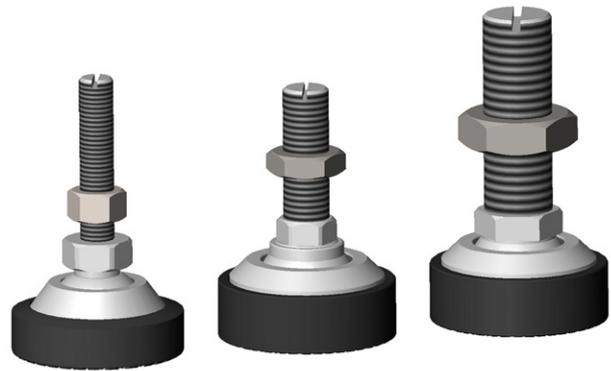
Type	Unit	PRVP 4*97/0.2	PRVP 6*7/0.2
Number of cores		4	6
Wire core colours		Red ,blake,green,white	Red ,brown,green,blue,blake,white
Coating material		PRVP	
Wire cross section	mm	0.2	
Wire resistance	Ohms/mm	<=0.9	
Capacity	PF/M	<=80	
Screen		1	
Temperature range		-30~85°C (-22~185°F)	

# Leg

## Leg for SQC series

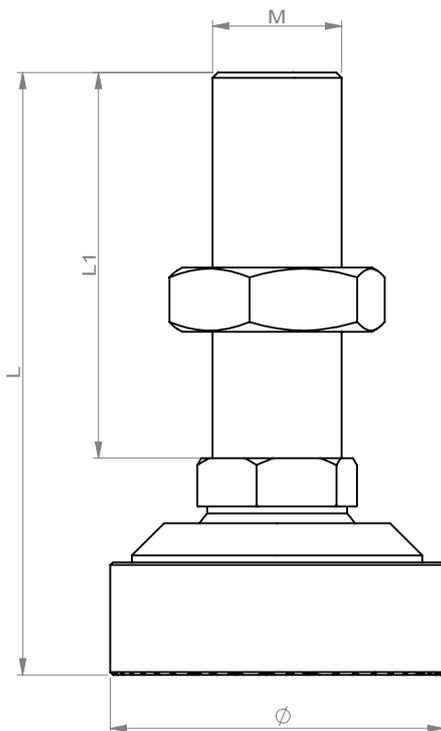
### Description

- Rocker with Steel ball
- With superfine abrasion performance and excellent elasticity, anti - skid treatment
- Low temperature resistance
- Good dynamic response
- Working height is adjustable
- Stainless steel is optional



### Dimensions

(In mm, 1mm=0.03937inches)



M	∅	L1	L
M10	62	48	92
M12			
M16			
M18*1.5			
1/2-20UNF			
3/4-16UNF			
M24*2	80	60	115
1-14UNF			

L1 length is optional

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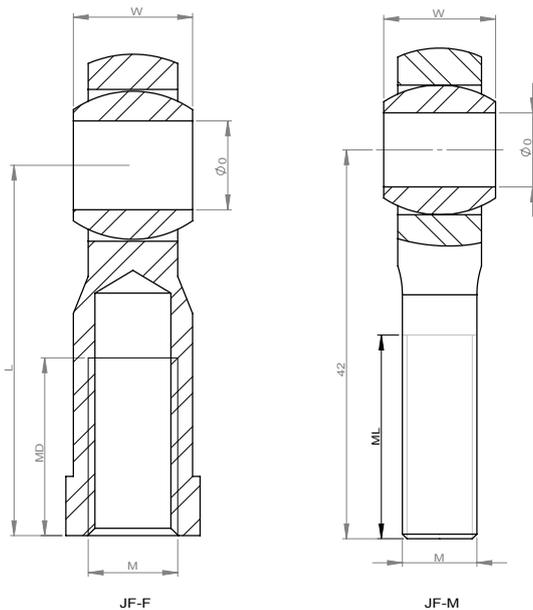
## Description

Joint rod end bearing is a kind of special structure of sliding bearing. Its structure is simpler than rolling bearing. With a spherical outside of the inner ring and outer ring, it can bear a heavy load. Joint rod end bearing are generally used for S type loadcell, loadcell module to adjust/control/stop movement or as a limiter.



## Dimensions

(In mm, 1mm=0.03937inches)



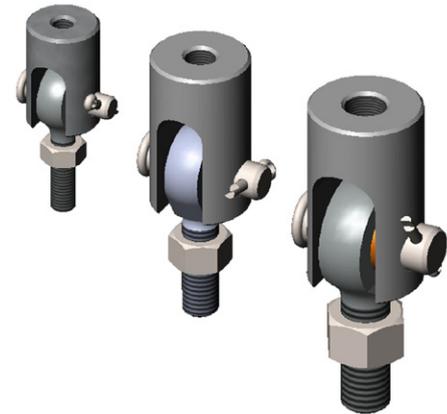
Type/Size	M	MD	Ø	W	L	L1	ML
JF-F/M5	M5*0.8	14	5	8	27	33	20
JF-F/M6	M6*1	14	6	9	30	36	22
JF-F/M8	M8*1.25	17	8	12	36	42	25
JF-F/M10	M10*1.5	21	10	14	43	48	29
JF-F/M12	M12*1.75	24	12	16	50	54	33
JF-F/M14	M14*2	27	14	19	57	60	36
JF-F/M16	M16*2	33	16	21	64	66	40
JF-F/M18	M18*1.5	36	18	23	71	72	44
JF-F/M20	M20*1.5	40	20	25	77	78	47

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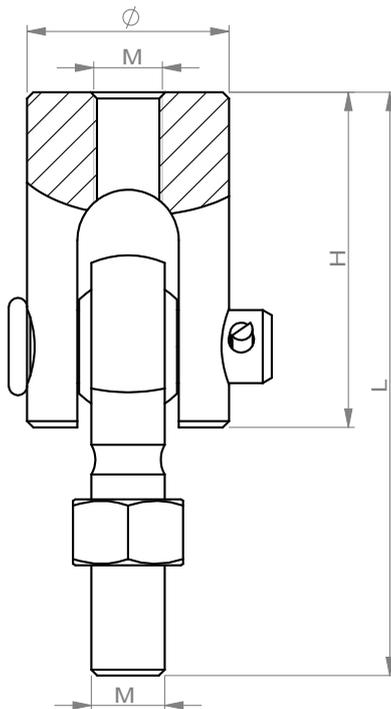
### Description

- Match M8,M12 and M16 thread S type loadcells
- With high quality rod ends
- Easy to install
- Good dynamic response
- Working height is adjustable
- Stainless steel is optional



### Dimensions

(In mm, 1mm=0.03937inches)



$\phi$	M	L	H
24	8	70	37
33	12	96	55
38	16	113	65

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[www.loadcell.cn](http://www.loadcell.cn)

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