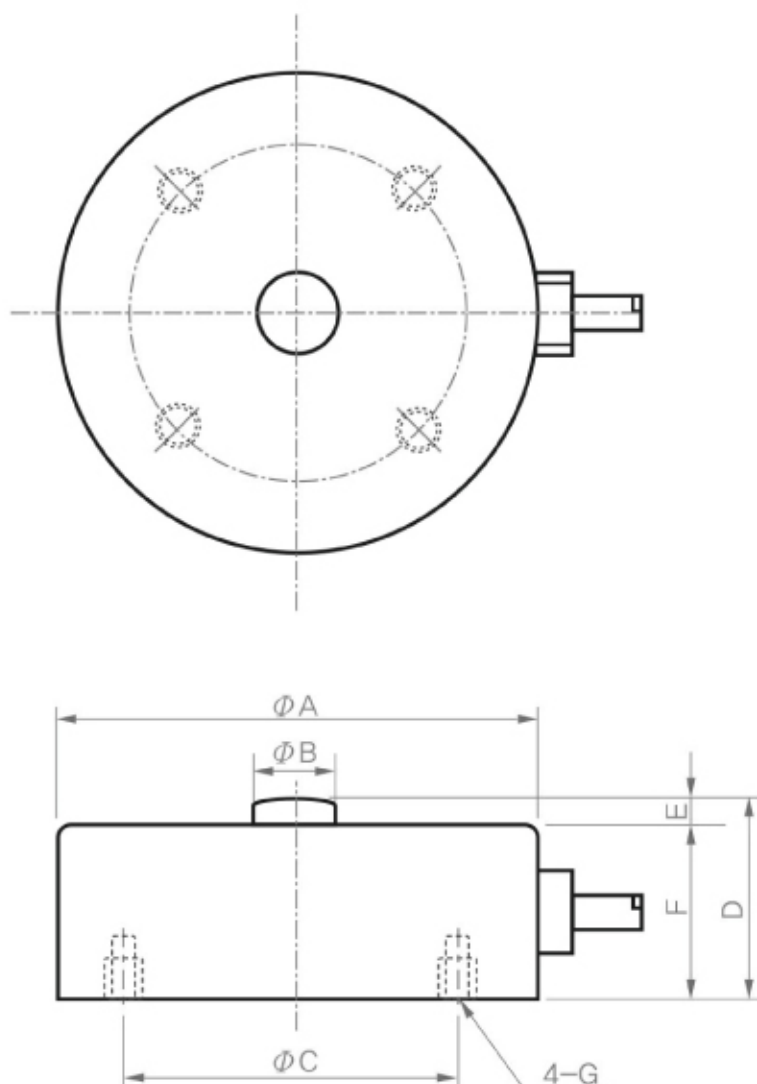


CE2 Series**Compression loadcell 100kgf~20tf****Features**

Compact size with low profile
 Miniature design
 Application for limited space
 Protection class IP66

For

Testing & Weighing system
 Other force measuring
 Compression application

Dimensions**Cable Color Code**

EXC.(+) : RED EXC.(-) : WHITE
 SIG.(+) : GREEN SIG.(-) : BLUE
 SHIELD : BLACK

Specifications

Rated capacity	100,200,500kgf 1t,2t,3t,5t,10t,20tf	
Rated output	$2 \pm 0.3\%$	mV/V
Non-linearity	0.15	% R.O.
Hysteresis	0.15	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.1	% LOAD / 10°C
Zero balance	0.1	% R.O./ 10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 3.5	Ω
Output	350 ± 3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	% R.O.
Electrical connection	Φ 6mm X 4C X 3	M

Material

Nickel plated steel

unit:mm

Capacity	ΦA	ΦB	ΦC	D	E	F	G	
100,200,500kgf, 1tf	58	10	42	25	4	21	M5 X 0.8P	D.P 8
2tf,3tf,5tf	88	20	72	40	5	35	M6 X 1P	D.P 8
10tf	88	20	72	45	5	40	M6 X 1P	D.P 8
20tf	118	20	90	50	5	45	M8 X 1.25P	D.P 10

CE2 Series

Compression loadcell 100kgf~20tf



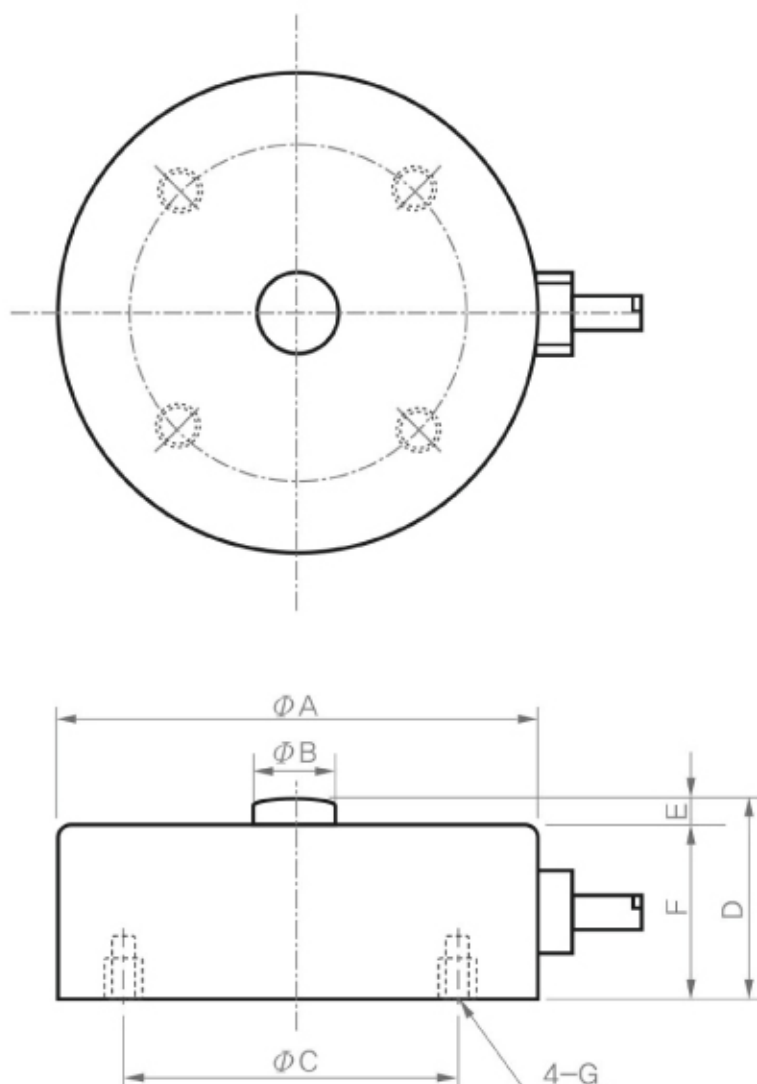
Features

Compact size with low profile
Miniature design
Application for limited space
Protection class IP66

For

Testing & Weighing system
Other force measuring
Compression application

Dimensions



Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Specifications

Rated capacity	100,200,500kgf 1t,2t,3t,5t,10t,20tf	
Rated output	$2 \pm 0.3\%$	mV/V
Non-linearity	0.15	% R.O.
Hysteresis	0.15	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.1	% LOAD / 10°C
Zero balance	0.1	% R.O./ 10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 3.5	Ω
Output	350 ± 3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	% R.O.
Electrical connection	Φ 6mm X 4C X 3	M

Material

Nickel plated steel

unit:mm

Capacity	ΦA	ΦB	ΦC	D	E	F	G
100,200,500kgf, 1tf	58	10	42	25	4	21	M5 X 0.8P D.P 8
2tf,3tf,5tf	88	20	72	40	5	35	M6 X 1P D.P 8
10tf	88	20	72	45	5	40	M6 X 1P D.P 8
20tf	118	20	90	50	5	45	M8 X 1.25P D.P 10

CD1 Series

Compression loadcell 3tf~500tf

* 300ton more order production



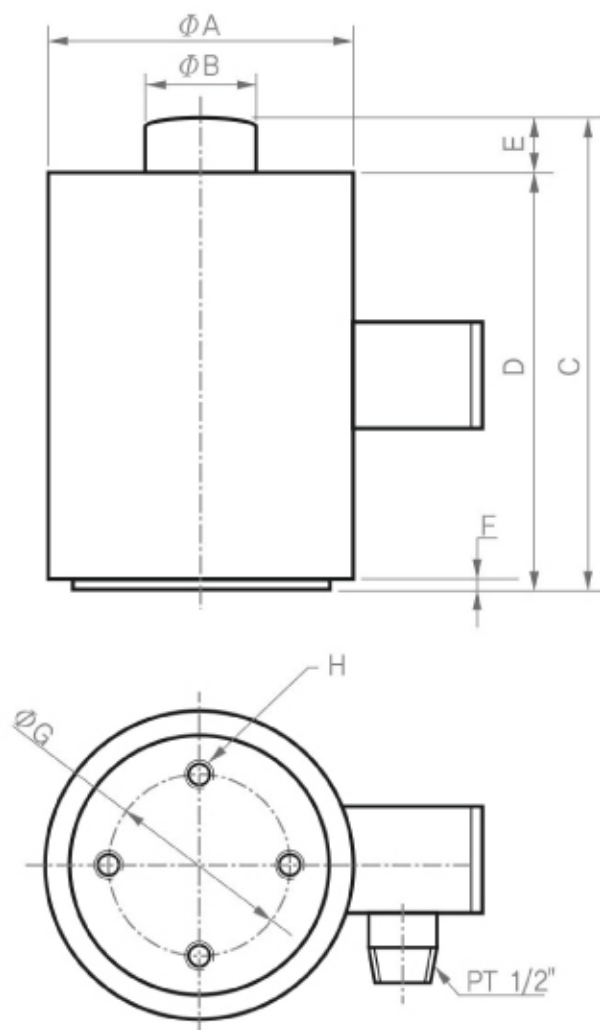
Features

- Hermetically sealed
- Robust high capacity design
- Calibrated at real max. capacity
- Protection class IP67

For

- Testing & Weighing system
- Other force measuring
- Compression application

Dimensions



Cable Color Code

EXC.(+) : RED
SIG.(+) : GREEN
SHIELD : BLACK

EXC.(+) : WHITE
SIG.(-) : BLUE

Specifications

Rated capacity	3,5,10,20,30,50,100 200,300,500,1000tf	
Rated output	1.5 ± 0.5%	mV/V
Non-linearity	0.1	% R.O.
Hysteresis	0.1	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		°C
Compensated	-10 ~ 70	
Operating	-20 ~ 80	
Temp.effect on		%/10°C
Rated output	0.03	
Zero balance	0.03	
Resistance		MΩ
Insulation(Min.)	2,000	
Input	700 ± 7	Ω
Output	700 ± 7	Ω
Excitation		V
Recommended	10	
Maximum	15	
Safe overload	150	%
Electrical connection	Φ 9mm X 4C X 3	M

Material

Paint finished steel

unit:mm

Capacity	ΦA	ΦB	C	D	E	F	ΦG	H
3tf,5tf,10tf	88	32	100	85	15	5	60	4-M8 DP,15
20tf,30tf	88	32	130	115	15	5	60	4-M8 DP,15
50tf	101	45	150	135	15	5	60	4-M8 DP,15
100tf	113	65	180	160	20	5	70	4-M12 DP,20
200tf	139	90	230	210	20	5	90	4-M16 DP,25
300tf	164	115	260	240	20	5	100	4-M16 DP,25
500tf	189	145	315	295	20	5	120	6-M16 DP,25



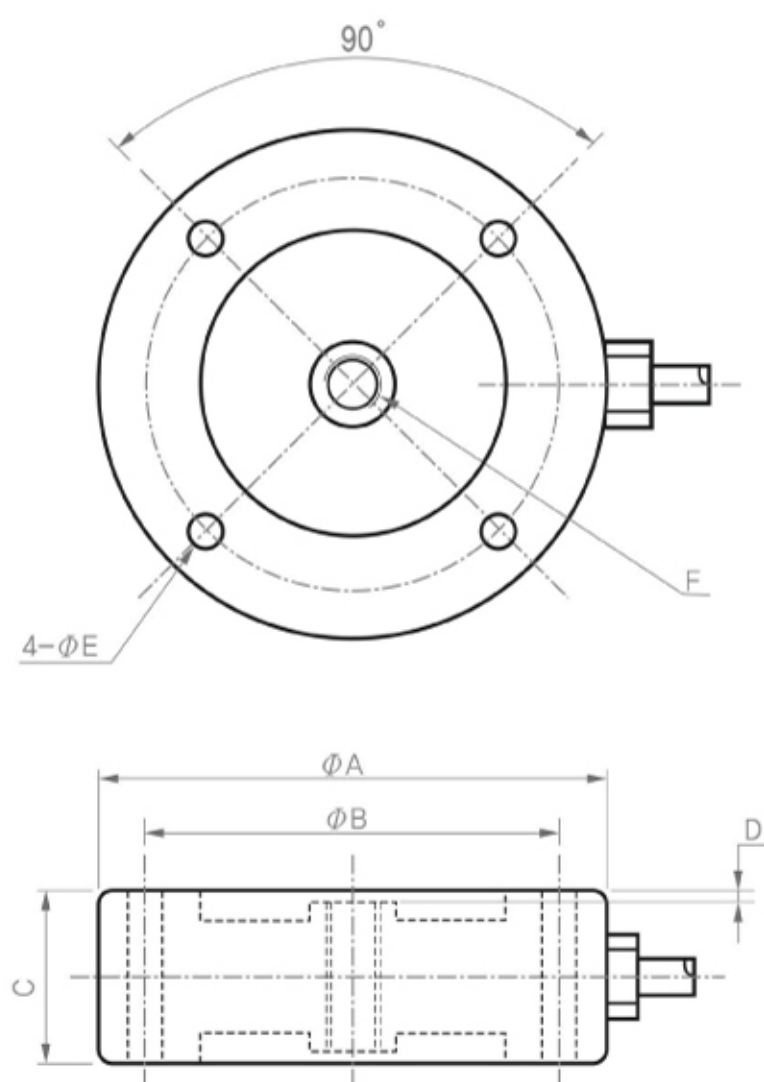
Features

- Pan cake type
- Compact size with low profile
- Protection class IP66

For

- Testing & Weighing system
- Other force measuring
- Tension & Compression application

Dimensions



Specifications

Rated capacity	20,50,100,200kgf 500kgf,1tf	
Rated output	$2 \pm 0.3\%$	mV/V
Non-linearity	0.05	% R.O.
Hysteresis	0.03	% R.O.
Repeatability	0.03	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.03	%/10°C
Zero balance	0.03	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	700 ± 7	Ω
Output	700 ± 7	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3	M

Cable Color Code

- EXC.(+) : RED EXC.(-) : WHITE
 SIG.(+) : GREEN SIG.(-) : BLUE
 SHIELD : BLACK

Material

Nickel plated steel

unit:mm

Capacity	ΦA	ΦB	C	D	ΦE	F
50~500kgf	88	73	30	2	7	M12 X 1.75P
1tf	88	73	30	2	7	M16 X 2P

CD3 Series**Tension & Compression loadcell 1tf~300tf**

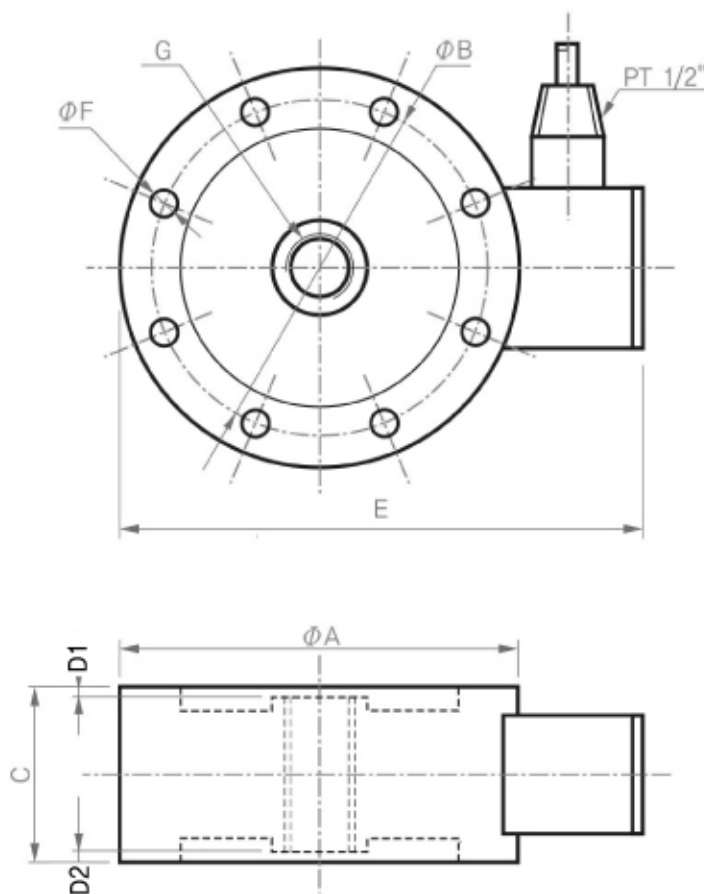
* 300ton more order production

**Features**

Hermetically sealed
High reliability against fatigue and side load
Low profile
Protection class IP66

For

Testing & Weighing system
Other force measuring
Tension & Compression application

Dimensions**Cable Color Code**

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Specifications

Rated capacity	1,2,3,5,10,20,30tf 50,100,200,300,400tf	
Rated output	3± 0.3 %	mV/V
Non-linearity	0.05(200,300tf-0.1)	% R.O.
Hysteresis	0.05(200,300tf-0.1)	% R.O.
Repeatability	0.03(200,300tf-0.05)	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.03	%/10°C
Zero balance	0.03	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 3.5(200,300tf-700±7)	Ω
Output	350 ± 3.5(200,300tf-700±7)	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3(1~5tf) Φ 8mm X 4C X 3	M

Material

Paint finished steel

unit:mm

Capacity	Φ A	Φ B	C	D1	D2	E	F	G
1,2,3,5tf	118	100	46	0	1	155	8-Φ9	M24 X 2P
10tf	138	116	60	0	1	175	8-Φ11	M39 X 2P
20tf	186	154	60	0	1	223	8-Φ14	M50 X 2P
30,50tf	226	190	70	0	1	263	12-Φ18	M50 X 2P
100tf	306	260	90	1	1	343	16-Φ23	M76 X 3P
200tf	355	295	100	1	1	392	16-Φ27	M95 X 4P
300tf	425	360	120	1	1	462	16-Φ34	M125 X 4P



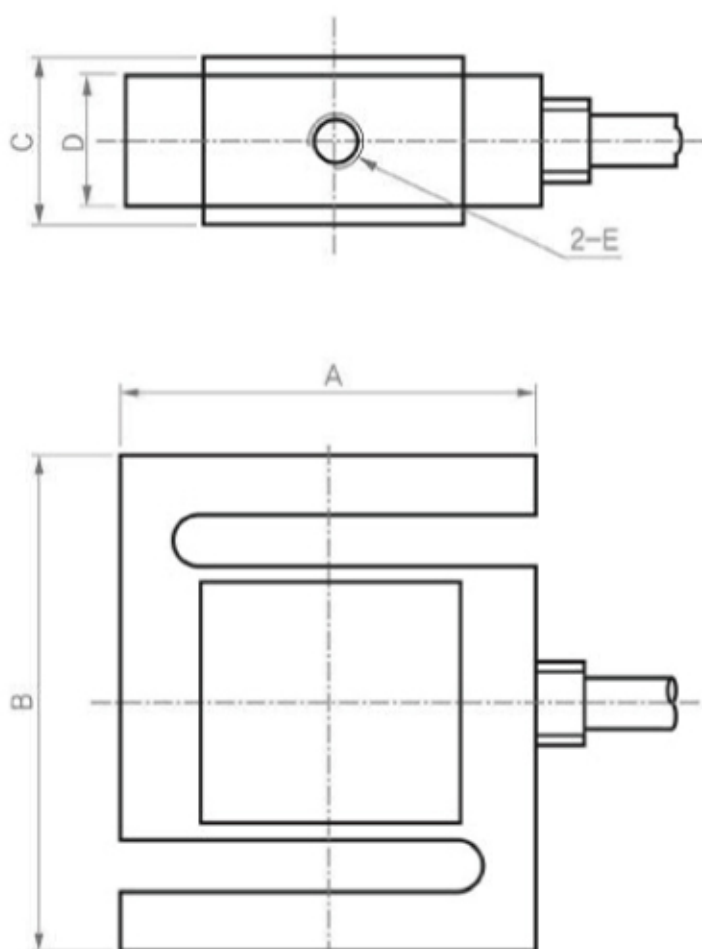
Features

Fully Environmental Protection
High accuracy
Protection class IP66

For

Hopper & Tank Weighing system
Other force measuring
Tension & Compression application

Dimensions



Specifications

Rated capacity	10,20,50,100,200,500kgf, 1tf,2tf,3tf,5tf	
Rated output	3 ± 0.5%	mV/V
Non-linearity	0.03	% R.O.
Hysteresis	0.03	% R.O.
Repeatability	0.02	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		°C
Compensated	-10 ~ 70	
Operating	-20 ~ 80	
Temp.effect on		%/10°C
Rated output	0.02	
Zero balance	0.03	
Resistance		MΩ
Insulation(Min.)	2,000	
Input	420 ± 30	Ω
Output	350 ± 3.5	Ω
Excitation		V
Recommended	10	
Maximum	15	
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3	M

Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Material

Nickel plated steel

unit:mm

Capacity	A	B	C	D	E
10,20,50,100kgf	51	63	20	15	M6 X 1P
200,500kgf	51	76	24	19	M12 X 1.75P
1tf	51	76	30	25	M12 X 1.75P
2tf	76	108	37	32	M20 X 1.5P
3tf	76	108	37	32	M24 X 2P
5tf	89	121	37	32	M24 X 2P

FNT1 Series

Torque loadcell 2kgf-cm~2tf-m

* 2tf-m more order production



Features

Flanged Type
Low deflection
High stability and sensitivity
Protection class IP65

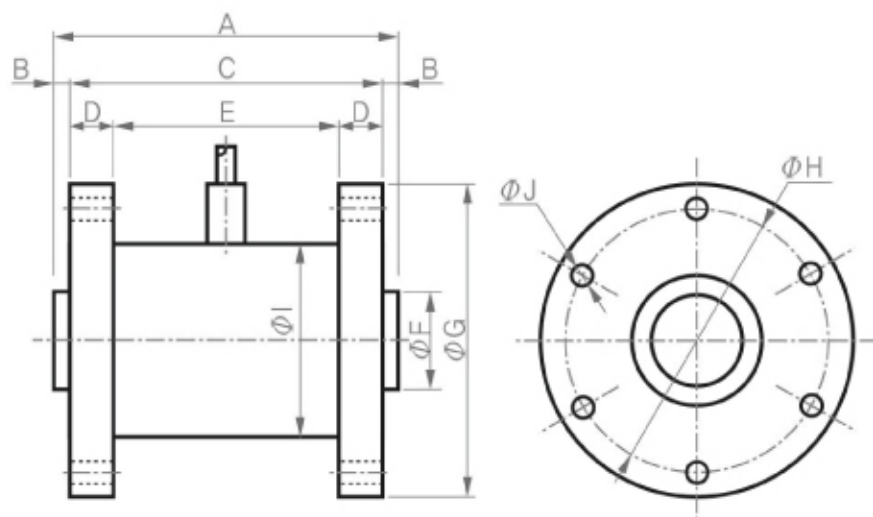
For

Suitable for torque measurement
Testing & Other torque measuring

Material

Nickel plated steel

Dimensions



Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Specifications

Rated capacity	2kgf-cm~2tf-m	
Rated output	1 ± 1%	mV/V
Non-linearity	0.3(2~5kgf-cm:0.5)	% R.O.
Hysteresis	0.3(2~5kgf-cm:0.5)	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.1	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.05	%/10°C
Zero balance	0.05	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 3.5	Ω
Output	350 ± 3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3	M

unit:mm

Capacity	A	B	C	D	E	ΦF	ΦG	ΦH	ΦI	ΦJ
2,5kgf-cm	61	3	55	5	45	20	58	46	33	2X4 - Φ4.5
10,20,50kgf-cm 1,2,5,10kgf-m	61	3	55	10	35	40	80	66	48	2X4 - Φ6.5
20kgf-m	86	3	80	15	50	40	98	78	58	2X6 - Φ10.5
50kgf-m	130	3	124	20	84	60	118	95	68	2X6 - Φ10.5
100kgf-m	136	3	130	20	90	60	146	115	75	2X6 - Φ13
200kgf-m	146	3	140	25	90	60	166	130	89	2X6 - Φ17
500kgf-m	176	3	170	35	100	60	197	155	98	2X12 - Φ18
1000,2000kgf-m	180	3	174	37	100	90	248	180	110	2X12 - Φ22



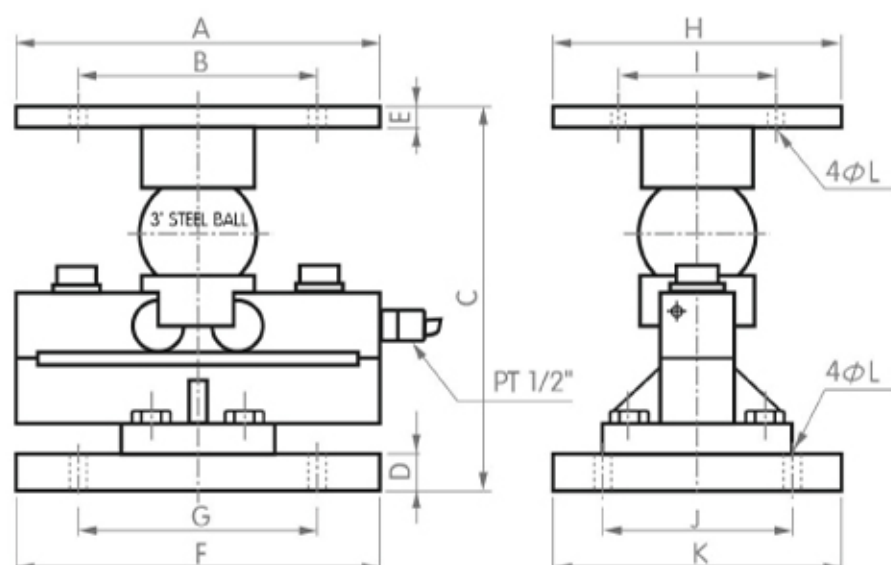
Features

- Fully Environmental Protection
- Robust design
- Self centering design
- Center loaded double ended shear beam
- Protection class IP67

For

- Truck scale
- Other Weighing system
- Compression application

Dimensions



Specifications

Rated capacity		25,30tf
Rated output	$2 \pm 0.2\%$	mV/V
Non-linearity	0.03	% R.O.
Hysteresis	0.03	% R.O.
Repeatability	0.02	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.02	%/10°C
Zero balance	0.03	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	800 ± 50	Ω
Output	700 ± 7	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	0	%
Electrical connection	Φ 9mmX4C X10	M

Cable Color Code

- EXC.(+) : RED
- EXC.(-) : WHITE
- SIG.(+) : GREEN
- SIG.(-) : BLUE
- SHIELD : BLACK

Material

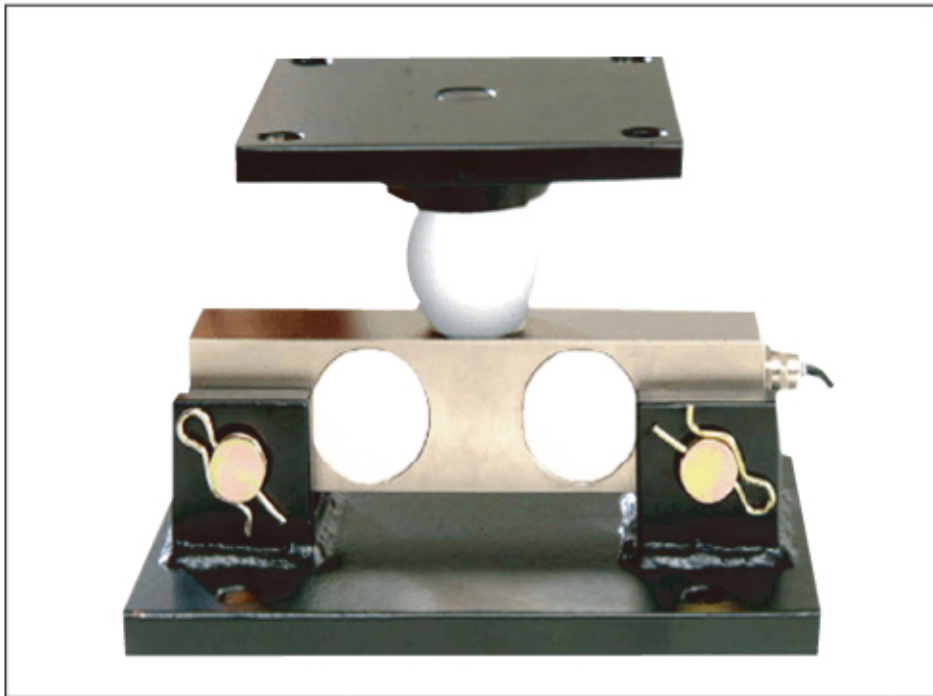
- Paint finished steel

unit:mm

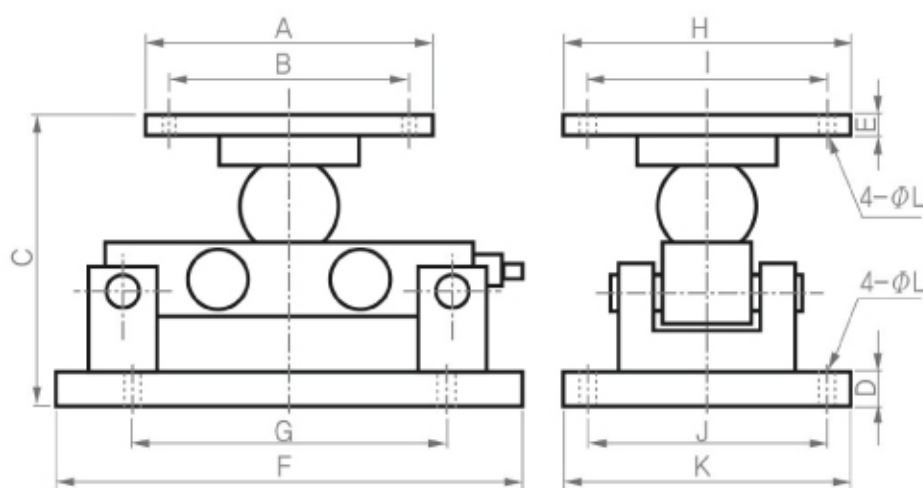
Capacity	A	B	C	D	E	F	G	H	I	J	K	ΦL
25,30tf	250	170	251.7	25	12	250	180	200	100	140	200	18

CAK2 Series

Compression loadcell 5tf~10tf



Dimensions



Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
 SIG.(+) : GREEN SIG.(-) : BLUE
 SHIELD : BLACK

Features

Fully Environmental Protection
 Robust design
 Self centering design
 Center loaded double ended shear beam
 Protection class IP67

For

Truck scale & Platform scale
 Other Weighing system
 Compression application

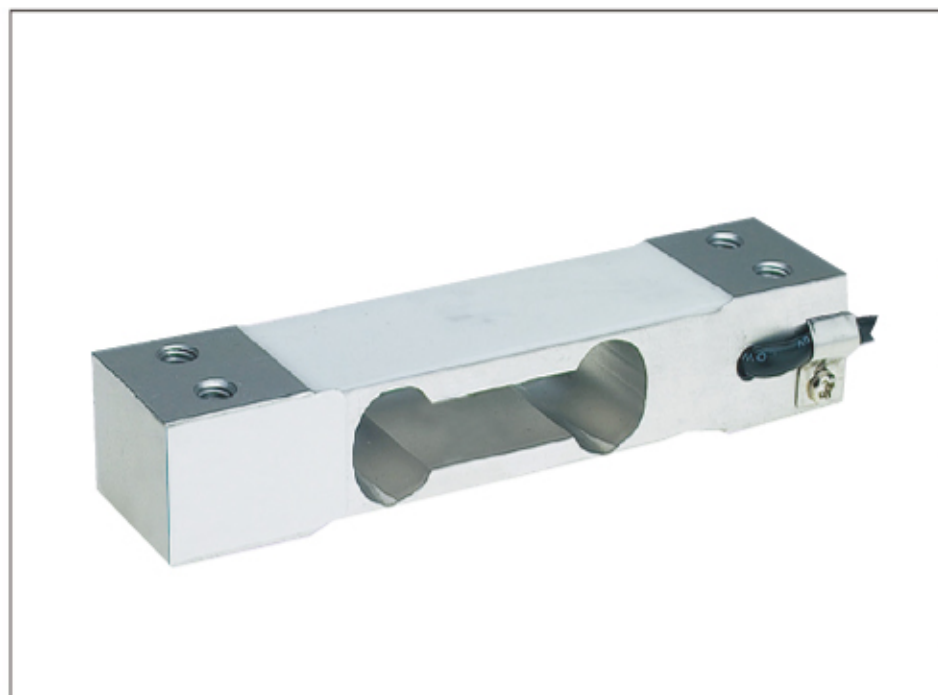
Specifications

Rated capacity			5,10tf
Rated output	2± 0.2%	mV/V	
Non-linearity	0.03	% R.O.	
Hysteresis	0.03	% R.O.	
Repeatability	0.02	% R.O.	
Creep for 20min.	0.03	% R.O.	
Zero Balance	1	% R.O.	
Temperature range			
Compensated	-10 ~ 70	°C	
Operating	-20 ~ 80	°C	
Temp.effect on			
Rated output	0.02	%/10°C	
Zero balance	0.03	%/10°C	
Resistance			
Insulation(Min.)	2,000	MΩ	
Input	800 ± 50	Ω	
Output	700 ± 7	Ω	
Excitation			
Recommended	10	V	
Maximum	15	V	
Safe overload	150	%	
Electrical connection	Φ 6mm X 4C X 6	M	

Material

Nickel plated steel

													unit:mm
Capacity	A	B	C	D	E	F	G	H	I	J	K	ΦL	
5,10tf	150	120	150	16	12	240	160	150	120	120	150	14	



Features

Low cost
Off center compensated
Protection class IP65

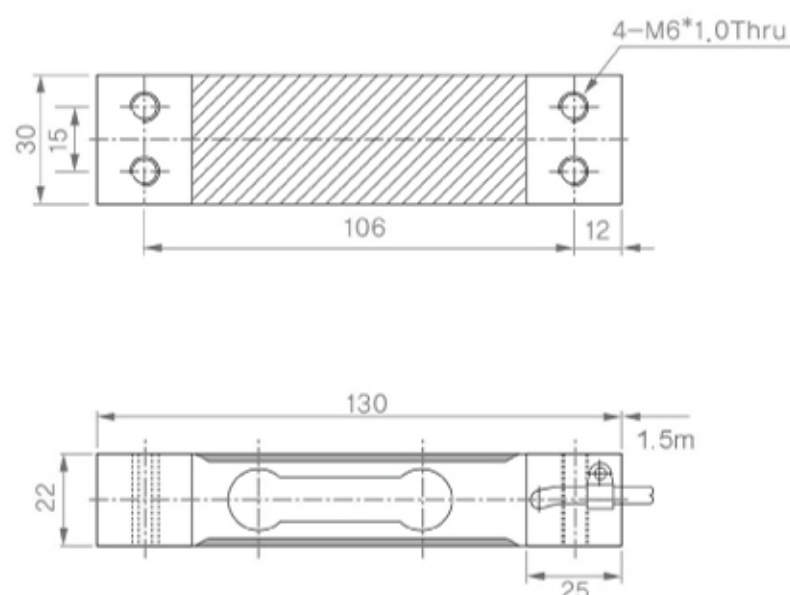
Material

Anodized Aluminum

Mounting

Socket-head cap screw
M6 X 1.0 (10.9)
Tightening torque : 14Nm

Dimensions



Specifications

Rated capacity	6,10,15,20,30kgf	
Rated output	2.0 ± 10%	mV/V
Zero Balance	0 ± 1%	mV/V
Combined error	0.03	%RO
Repeatability	0.01	%RO
Creep for 30min.	0.03	%RO
Temp.effect on Zero value	0.028	%RO/10℃
Output value	0.014	%RO/10℃
Excitation		
Recommended	10	V
Maximum	15	V
Resistance		
Insulation(Min.)	2,000	MΩ
Input	400 ± 20	Ω
Output	350 ± 3.5	Ω
Compensated temp. range	-10~± 40	℃
Operating temp. range	-20~± 80	℃
Electrical connection	Φ4mm X 4C X 1.5	M

Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Maximum Platform Size

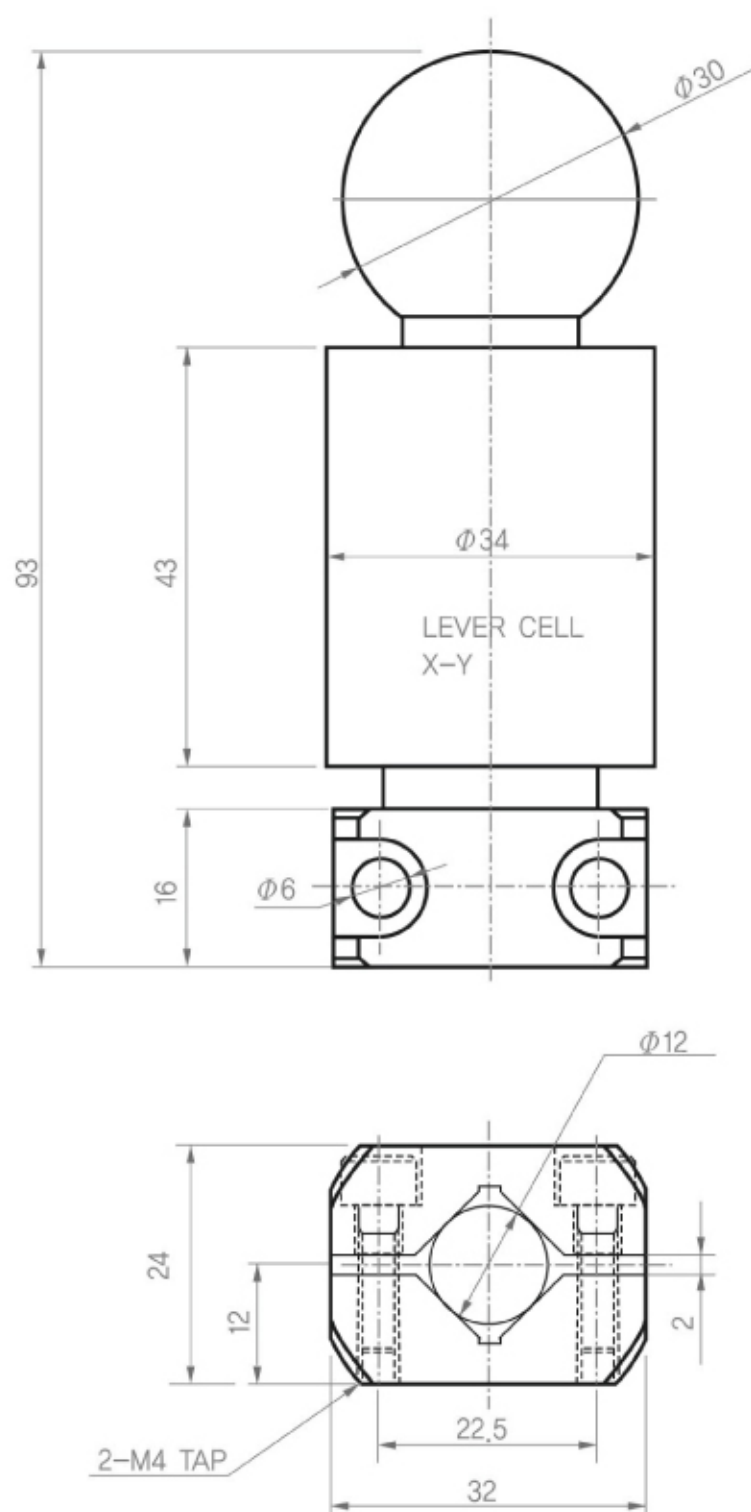
300 X 300 mm

TGS1 Series**Lever loadcell X-Y 20~50kgf**

order production



○ Dimensions



○ Specifications

Rated capacity		20,50kgf
Rated output	± 0.5	mV/V
Non-linearity	1	% R.O.
Hysteresis	1	% R.O.
Repeatability	0.3	% R.O.
Creep for 20min.	0.1	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10~70	°C
Operating	-20~80	°C
Temp.effect on		
Rated output	0.05	%/10°C
Zero balance	0.05	%/10°C
Resistance		
Insulation(Min.)	2000	MΩ
Input	350±3.5	Ω
Output	350±3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	120	%
Electrical connection	Φ2X4C X 2	M

○ Material

Nickel plated steel

○ Cable Color Code

EXC.(+) : RED

EXC.(-) : WHITE

SIG.(+) : GREEN

SIG.(-) : BLUE

SHIELD : BLACK



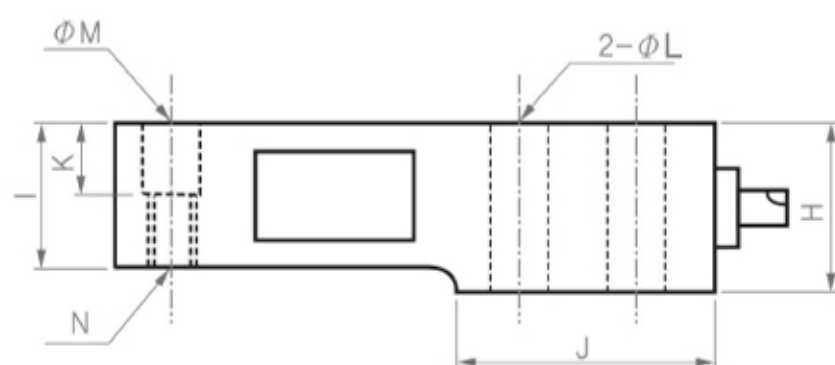
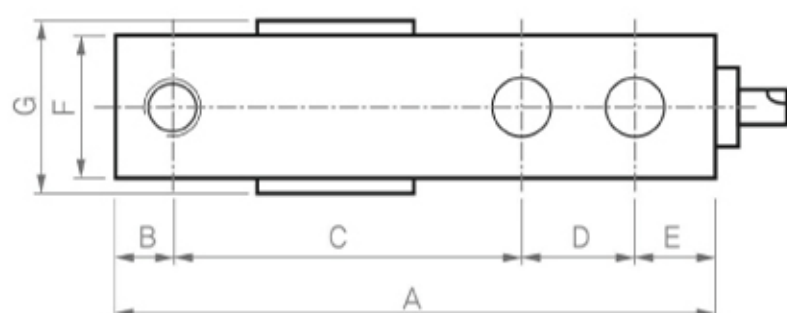
Features

Single ended shear beam
high accuracy
Protection class IP67

For

Platform & Weighing system
Other force measuring

Dimensions



Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Specifications

Rated capacity	500kgf,1,2,3,5,10tf	
Rated output	$3 \pm 0.3\%$	mV/V
Non-linearity	0.03	% R.O.
Hysteresis	0.03	% R.O.
Repeatability	0.02	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.02	%/10°C
Zero balance	0.03	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 3.5	Ω
Output	350 ± 3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3(0.5~2tf)	M
	Φ 6mm X 4C X 6(3~10tf)	M

Material

Nickel plated steel

unit:mm

Capacity	A	B	C	D	E	F	G	H	I	J	K	ΦL	ΦM	N
500kgf,1,2tf	131	13.6	76.2	25.4	15.8	31.8	37	38	32	57	16	13.5	13.5	M12X1.75P
3,5tf	171.5	19.1	95.3	38.1	19	38	43	44.5	38	76	19	20	20	M18X1.5P
10tf	222.3	25.4	120.7	50.8	25.4	50.75	56	57.2	50.8	108	25.4	26.2	26.2	M24X2P

CM1 Series

Compression load cell 20kg~50kg



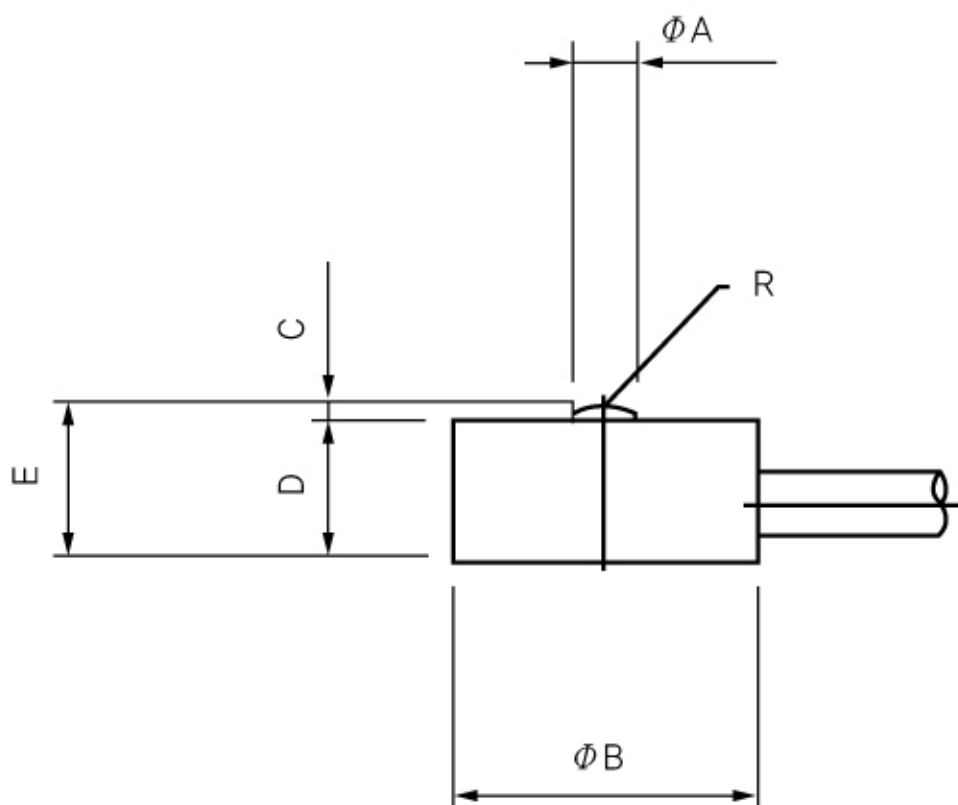
Features

Compact size with low profile
Miniature design
Application for limited space
Protection class IP66

For

Testing & Weighing system
Other force measuring
Compression application

Dimensions



Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Specifications

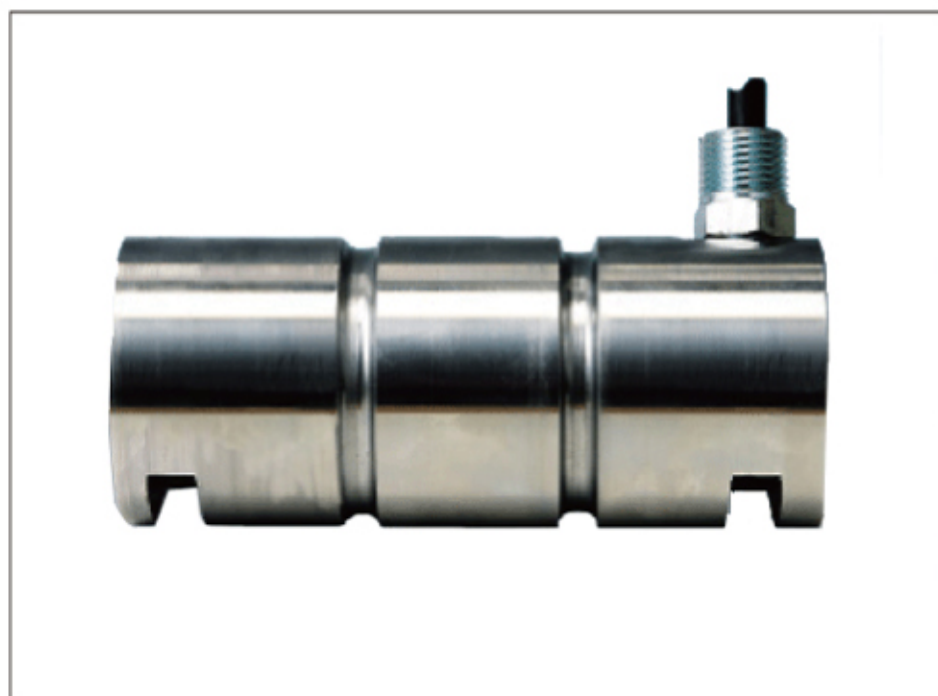
Rated capacity		20kg, 50kg
Rated output	0.5 이상	mV/V
Non-linearity	1	% R.O.
Hysteresis	1	% R.O.
Repeatability	1	% R.O.
Creep for 20min.	0.5	% R.O.
Zero Balance	±30	% R.O.
Temperature range		
Compensated	5 ~ 30	°C
Operating	-10 ~ 50	°C
Temp.effect on		
Rated output	1	%/10°C
Zero balance	1	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 10	Ω
Output	350 ± 10	Ω
Excitation		
Recommended	5	V
Maximum	10	V
Safe overload	120	%
Electrical connection	Φ 1.6mm X 4C X 0.5	M

Material

Stainless steel

unit:mm

Capacity	Φ A	Φ B	Φ C	D	E	R
20kg, 50kg	2	10	0.5	4.5	5	3



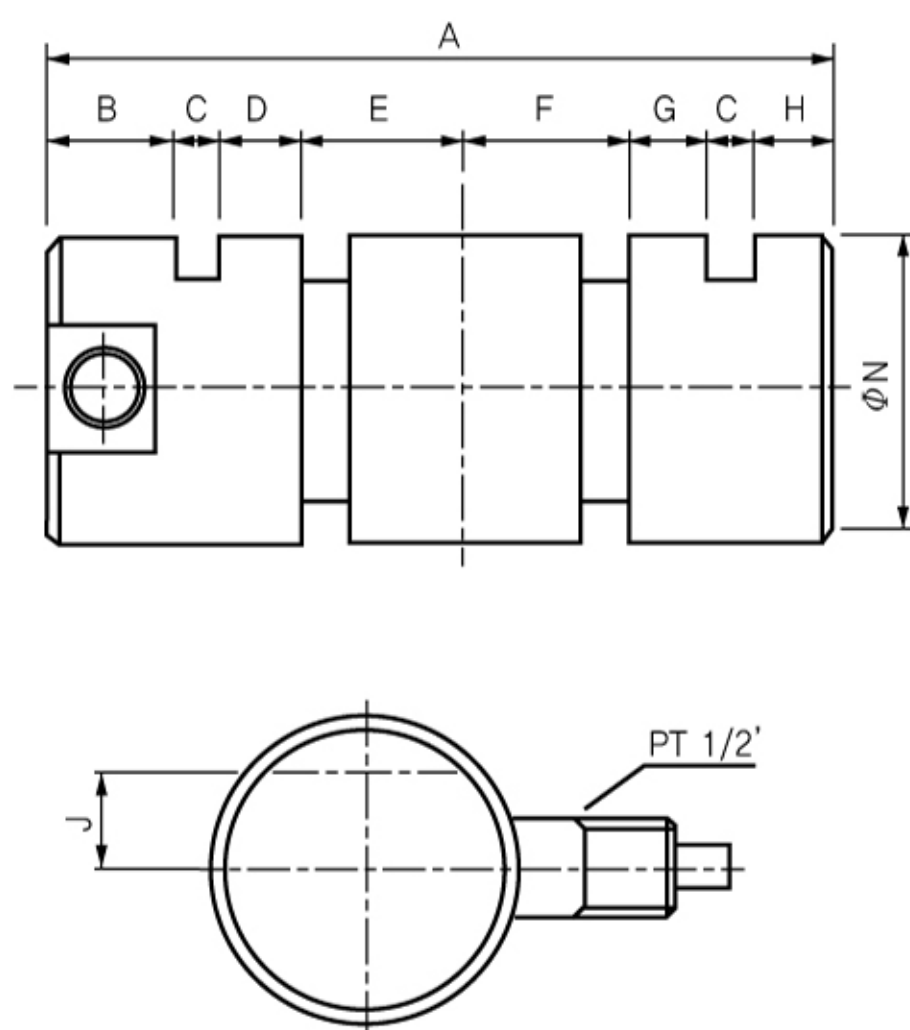
Features

Pin type
Specially design
Protection class IP67

For

Crane scale system
Load limiter system
Other force measuring

Dimensions



Specifications

Rated capacity	5,10,20,30,50	tf
Rated output	1.0 ± 10%	mV/V
Non-linearity	0.5	% R.O.
Hysteresis	0.5	% R.O.
Repeatability	0.2	% R.O.
Creep for 20min.	0.3	% R.O.
Zero Balance	1	% R.O.
Temperature range		°C
Compensated	-10 ~ 70	
Operating	-20 ~ 80	
Temp.effect on		%/10°C
Rated output	0.05	
Zero balance	0.05	
Resistance		MΩ
Insulation(Min.)	2,000	
Input	350 ± 5	Ω
Output	350 ± 5	Ω
Excitation		V
Recommended	10	
Maximum	15	
Safe overload	150	%
Electrical connection	Φ 9mm X 4C X 3	M

Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
SIG.(+) : GREEN SIG.(-) : BLUE
SHIELD : BLACK

Material

High alloy tool steel

unit:mm

Capacity	A	B	C	D	E	F	G	H	I	J
5	118	19	8	10	29	29	10	5	Φ 50	15
10	132	22	11	6	33	33	6	10	Φ 50	15
20	153	23	10	8	42	42	8	10	Φ 75	25
30	238	25	13	20	65	65	20	17	Φ 80	26
50	308	10	12	27	95	95	27	30	Φ 100	39

CE1 Series

Compression loadcell 500kgf ~ 100tf



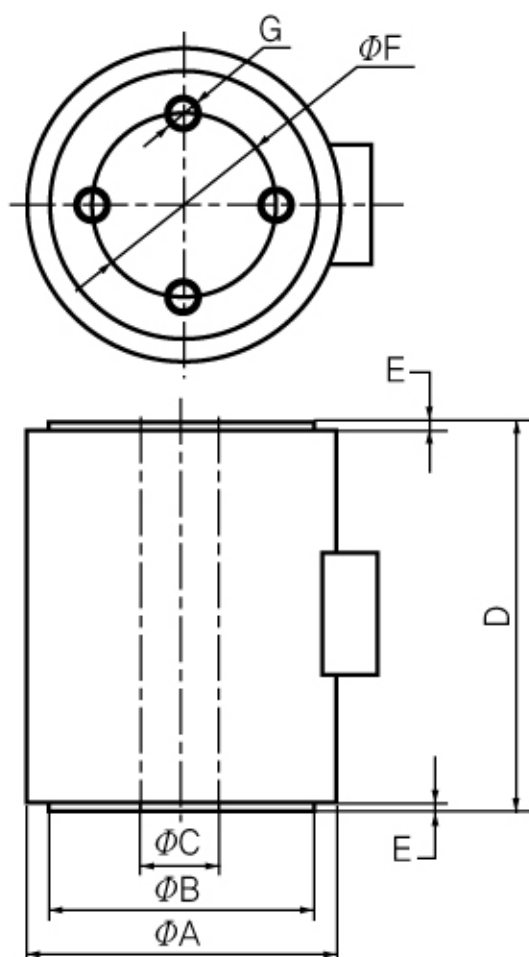
Features

Center hole type
Easy installation
Protection class IP65

For

Suitable for press
Testing & Weighing system
Other force measuring
Compression application

Dimensions



Cable Color Code

EXC.(+) : RED EXC.(+) : WHITE
SIG.(+) : GREEN SIG.(-) : L BLUE
SHIELD : BLACK

Specifications

Rated capacity	500kgf, 1, 2, 3, 5, 10, 20, 30, 50, 100	tf
Rated output	1 ± 1%	mV/V
Non-linearity	0.5	% R.O.
Hysteresis	0.5	% R.O.
Repeatability	0.5	% R.O.
Creep for 20min.	0.1	% R.O.
Zero Balance	1	% R.O.
Temperature range		°C
Compensated	-10~70	
Operating	-20~80	
Temp.effect on		%/10°C
Rated output	0.1	
Zero balance	0.1	
Resistance		MΩ
Insulation(Min.)	2,000	
Input	700 ± 7(500kgf-350 ± 3.5)	Ω
Output	700 ± 7(500kgf-350 ± 3.5)	Ω
Excitation		V
Recommended	5	
Maximum	18	
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3	M

Material

Nickel plated steel

unit : mm

Capacity	A	B	C	D	E	ΦF	G
500kgf	40	35	10	50	1	24	2 X 4 - M4 DP.8
1, 2, 3, 5tf	62	55	18	70	2	44	2 X 4 - M5 DP.8
10tf	62	55	18	80	2	44	2 X 4 - M5 DP.8
20tf	88	80	20	100	2	60	2 X 4 - M8 DP.12
30tf	100	90	20	120	2	70	2 X 4 - M8 DP.15
50tf	134	120	30	150	2	90	2 X 4 - M10 DP.16
100tf	164	145	50	180	2	110	2 X 4 - M12 DP.20



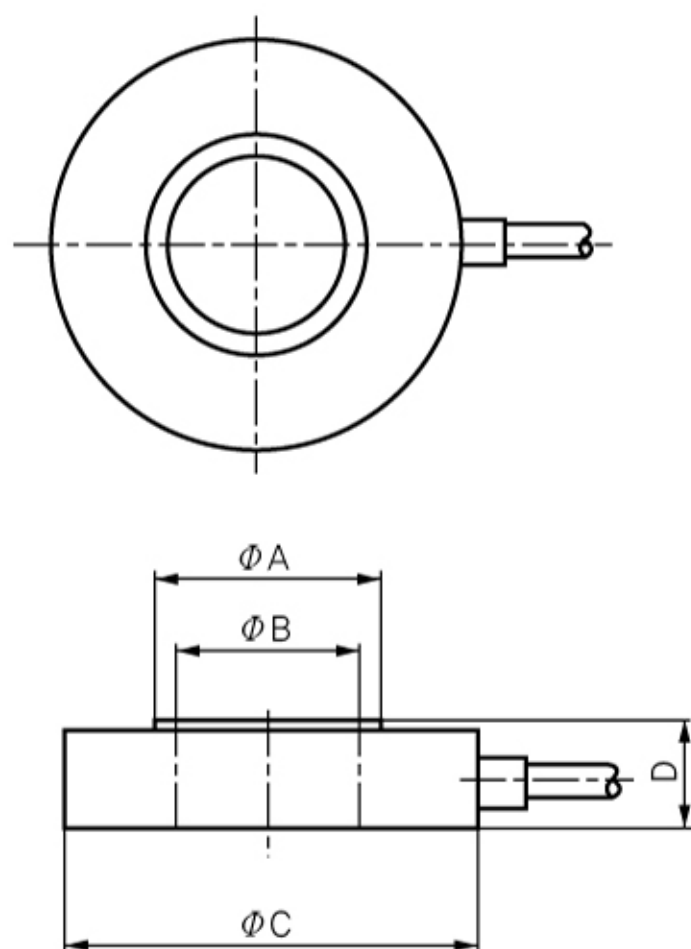
Features

- Compact size with low profile
- Miniature design
- Application for limited space
- Protection class IP66

For

- Testing & Weighing system
- Other force measuring
- Compression application

Dimensions



Cable Color Code

- EXC.(+) : RED
- EXC.(-) : WHITE
- SIG.(+) : GREEN
- SIG.(-) : BLUE
- SHIELD : BLACK

Specifications

Rated capacity	1t,2t,3t,5t,10t	
Rated output	$2 \pm 1\%$	mV/V
Non-linearity	0.5	% R.O.
Hysteresis	0.5	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.1	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.1	%/10°C
Zero balance	0.1	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	400 ± 30	Ω
Output	350 ± 5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	%
Electrical connection	Φ 9mm X 4C X 3	M

Material

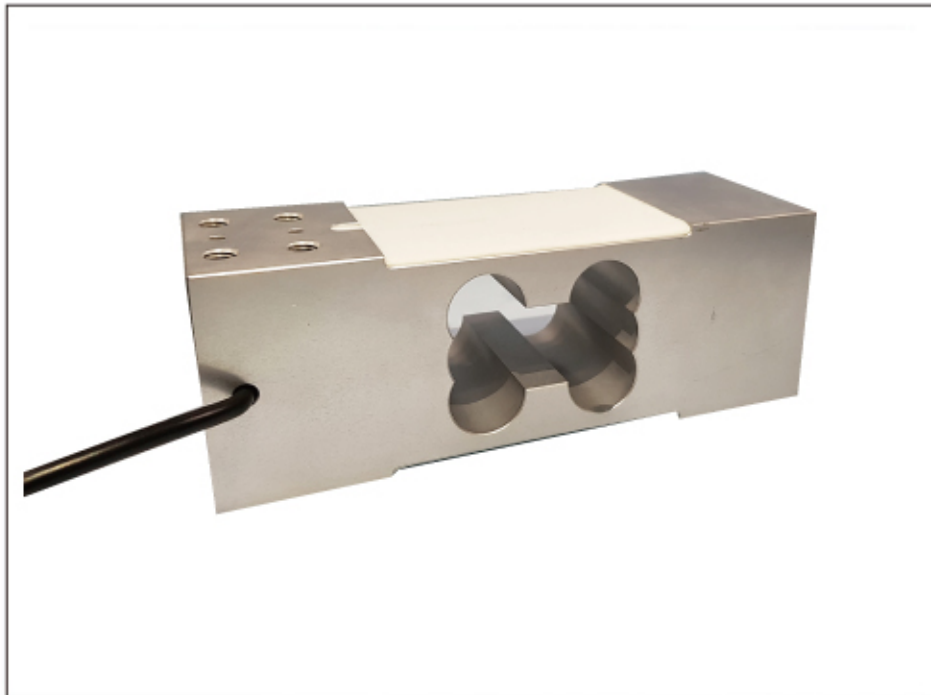
Stainless steel

unit:mm

Capacity	Φ A	Φ B	Φ C	D
1t,2t	23	15	52	16
3t,5t,10t	43	25	79	26

OB2 Series

Single point loadcell 30kgf ~ 250kgf



Features

Low cost
Off center compensated
Protection class IP65

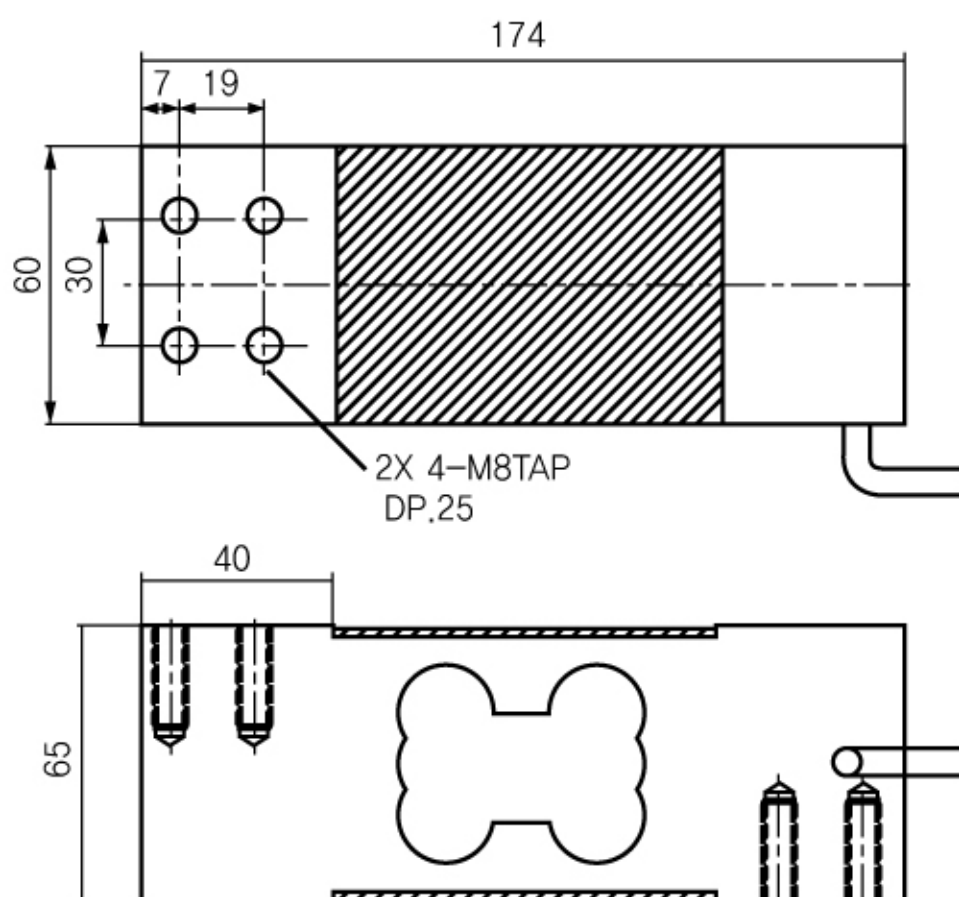
Material

Anodized Aluminum

Mounting

Socket-head cap screw
M8 X 1.25 (10.9)
Tightening torque : 29Nm

Dimensions



Specifications

Rated capacity	30,50,100,150,250kgf	
Rated output	2.0 ± 10%	mV/V
Zero Balance	0 ± 1%	mV/V
Combined error	0.03	%RO
Repeatability	0.01	%RO
Creep for 30min.	0.03	%RO
Temp.effect on Zero value	0.028	%RO/10℃
Operating	0.014	%RO/10℃
Excitation		
Recommended	10	V
Maximum	15	V
Resistance		
Insulation(Min.)	2,000	MΩ
Input	400 ± 20	Ω
Output	350 ± 3.5	Ω
Compensated temp. range	-10~± 40	℃
Operating temp. range	-20~± 80	℃
Electrical connection	Φ4mm X4C X 1.5	M

Cable Color Code

EXC.(+) : RED EXC.(+): WHITE
SIG.(+) : GREEN SIG.(-) L BLUE
SHIELD : BLACK

Maximum Platform Size

400 X 600 mm



Features

- Hermetically sealed
- Robust high capacity design
- Double convex type
- Protection class IP67

For

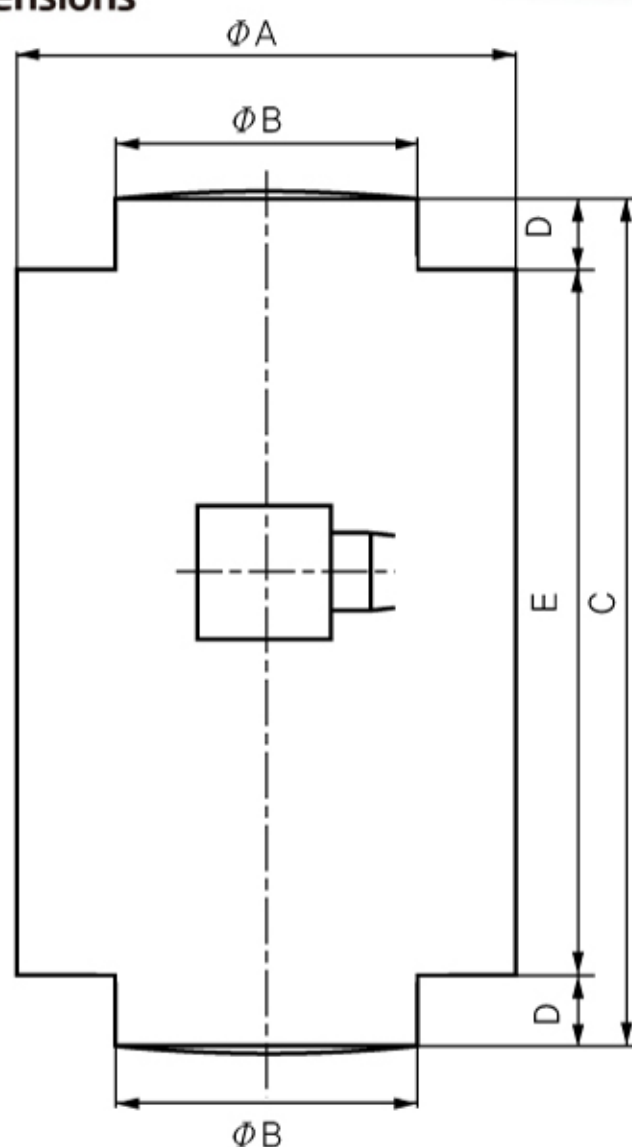
- Testing & Weighing system
- Other force measuring
- Compression application

Material

- Paint finished steel

Specifications

Dimensions



Cable Color Code

- EXC.(+) : RED
- SIG.(+) : GREEN
- SHIELD : BLACK
- EXC.(+) : WHITE
- SIG.(-) : BLUE

Rated capacity	20,30,50,100 200,300,500tf	
Rated output	1.5 ± 0.5%	mV/V
Non-linearity	0.1	% R.O.
Hysteresis	0.1	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.05	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.03	%/10°C
Zero balance	0.03	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	700 ± 7	Ω
Output	700 ± 7	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	%
Electrical connection	Φ 9mm X 4C X 5	M

unit:mm

Capacity	ΦA	ΦB	C	D	E
20tf	88	32	120	15	90
30tf	88	32	140	15	110
50tf	101	45	180	20	140
100tf	113	65	210	20	170
200tf	139	90	250	25	200
300tf	164	115	290	25	240
500tf	189	145	340	30	280

UD2 Series

Compression load cell 50kgf~1000kgf



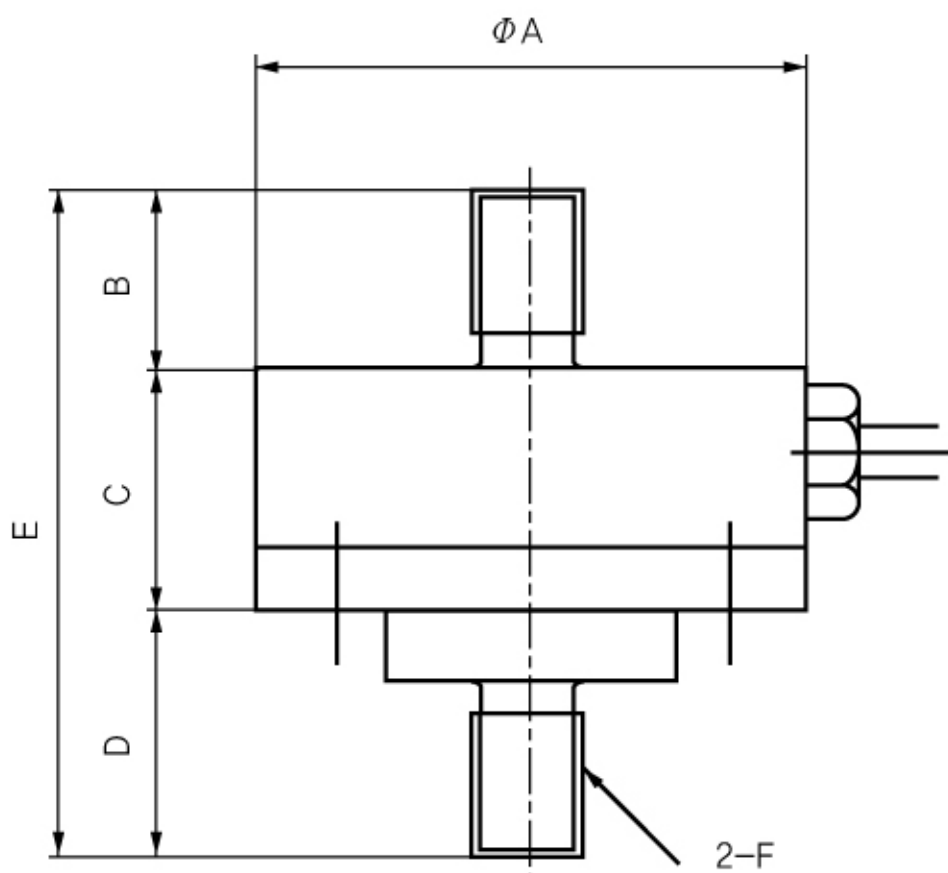
Features

- Miniature Type
- Compact size
- Protection class IP67

For

- Testing & Weighing system
- Other force measuring
- Tension & Compression application

Dimensions



Specifications

Rated capacity	100,200kgf 500kgf,1000kgf	
Rated output	$2 \pm 0.3\%$	mV/V
Non-linearity	0.1	% R.O.
Hysteresis	0.1	% R.O.
Repeatability	0.1	% R.O.
Creep for 20min.	0.03	% R.O.
Zero Balance	1	% R.O.
Temperature range		
Compensated	-10 ~ 70	°C
Operating	-20 ~ 80	°C
Temp.effect on		
Rated output	0.03	%/10°C
Zero balance	0.03	%/10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	700 ± 7	Ω
Output	700 ± 7	Ω
Excitation		
Recommended	10	V
Maximum	18	V
Safe overload	150	%
Electrical connection	Φ 6mm X 4C X 3	M

Cable Color Code

EXC.(+) : RED EXC.(-) : WHITE
 SIG.(+) : GREEN SIG.(-) : BLUE
 SHIELD : BLACK

Material

Stainless steel

unit:mm

Capacity	ΦA	B	C	D	E	F
100 ~ 1000kgf	58	18	26.7	24.5	69	M12x1.25P



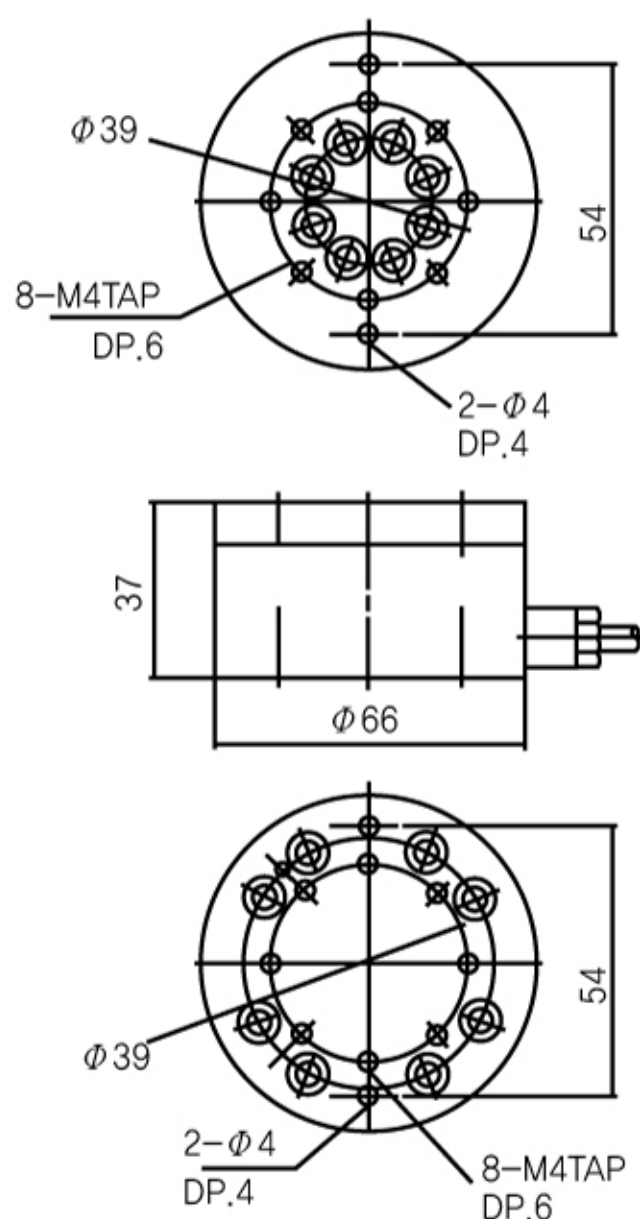
Features

- Various capacity of detecting up to 6 components
- Minimise interaction between components
- High accuracy less than 0.5% on each component
- All products patent pending

For

- Testing
- Other force measuring

Dimensions



Specification

Rated output	approx 0.5	mV/V
Non-linearity	0.5	% R.O.
Hysteresis	0.5	% R.O.
Repeatability	0.3	% R.O.
Temp.effect on		
Rated output	0.6	% LOAD / 10°C
Zero balance	0.3	% R.O. / 10°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	400 ± 50	Ω
Output	300 ± 3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Safe overload	150	% R.O.
Degree of in interference	±3	% R.O.

Cable Color Code

- EXC.(+) : RED
- EXC.(+) : WHITE
- SIG.(+) : GREEN
- SIG.(-) : L BLUE
- SHIELD : BLACK

Model	Fx(kg)	Fy(kg)	Rated Load			
			Fz(kg)	Mx(kg-m)	My(kg-m)	Mz(kg-m)
MAM6	100	100	100	1.5	1.5	1.5
	200	200	200	3	3	3



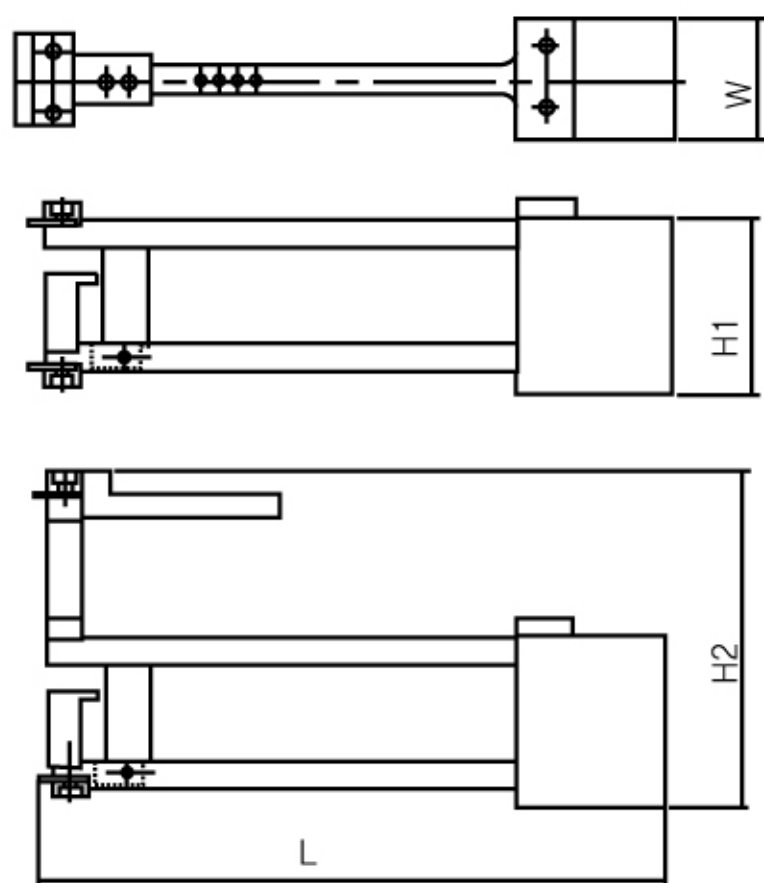
Features

- Quick attachment
- Strain gauge Based
- Over travel protection

For

Strain Measurement

Dimensions



Cable Color Code

EXC.(+) : RED EXC.(+): WHITE
 SIG.(+) : GREEN SIG.(-) L BLUE
 SHIELD : BLACK

Specification

Model	ETM2	
Rated output	$2 \pm 40\%$	mV/V
Non-linearity	0.2 (20mm-0.3)	% R.O.
Hysteresis	0.2 (20mm-0.3)	% R.O.
Temp.effect on		
Compensated	-5~40	°C
Operating	-10~60	°C
Resistance		
Insulation(Min.)	2,000	MΩ
Input	350 ± 3.5	Ω
Output	350 ± 3.5	Ω
Excitation		
Recommended	10	V
Maximum	15	V
Over Travel	Mechanical stops	

Material

Anodized aluminum

unit : mm

Model	Gage Length	Travel	L (length)	W (width)	H1 (height)	H2 (height)
ETM2-2510	25	10	110	19	38	-61
ETM2-5010	50					
ETM2-2520	25	20	136	19	38	65
ETM2-5020	50					