

COMPRESSION BUTTON LOAD CELL



- LOW PROFILE
- COMBINED ERROR $\leq \pm 0.071\%$
- IP67 PROTECTION RATING
- 17-4PH STAINLESS STEEL | 1.4542



NOMINAL LOAD (FS)

kN	t	Net weight (kg)	Combined error	ISO 17025	High Temperature -40...250°C	Rated Output (mV/V)
5	0.5	~1	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
10	1	~1	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
20	2	~1	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
30	3	~1	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
100	10	~1	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
150	15	~2	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
200	20	~2	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
300	30	~3	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
500	50	~22	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$
1 000	100	~22	$\leq \pm 0.071\%$	(optional)	(optional)	1.5 $\pm 10\%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	1.5 mV/V ± 10 % at FS
Zero Balance	$< \pm 0.05$ %
Combined error	$\leq \pm 0.071$ %FS
Non-linearity	$\leq \pm 0.05$ %FS
Hysteresis	$\leq \pm 0.05$ %FS
Repeatability	$\leq \pm 0.05$ %FS
Creep	$\leq \pm 0.05$ %FS (at 30 min FS)
Temperature coefficient of zero	0.003 %FS/°C
Temperature coefficient of sensitivity	0.003 %FS/°C
Compensated temperature range	-10...+60 °C
Operating temperature range	-20...+80 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	17-4 PH STAINLESS STEEL 1.4542
Deflection at FN	~ 0.06 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	$780 \pm 20 \Omega$
Output resistance	$700 \pm 10 \Omega$
Insulation resistance	$\geq 5\,000\, \text{M}\Omega$ at 100 V
Recommended excitation voltage	5 - 12 V
Cable diameter	5 mm
Cable length	4 000 mm

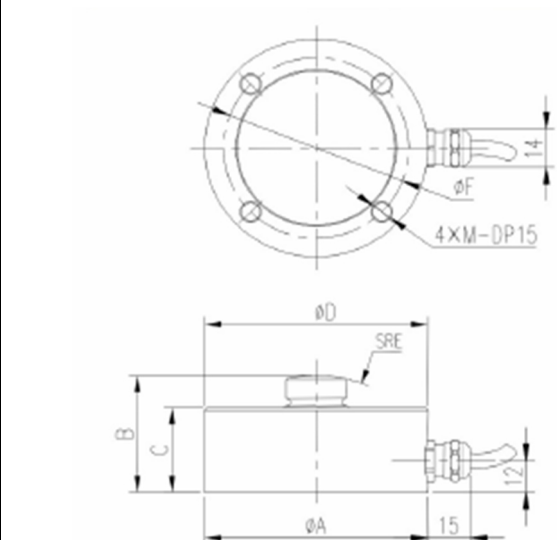
MECHANICAL LIMITS

Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. transverse load (side)	50 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	70 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

COMPLIANCE AND CERTIFICATION

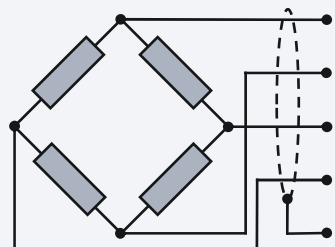
Protection Rating	IP67 (IEC 60529)
Compliance	CE, RoHS, REACH
Calibration	Factory-calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80

DIMENSIONS



Cap (kN)	(mm)						
	A	B	C	D	E	F	M
5, 10, 20, 30 ,50, 100	82	44	32	22	50	68	M8
150, 200	100	48	36	28	100	80	M8
300	126	54	40	35	100	101	M10
500, 1000	265	80	62	60	150	144	M10

ELECTRICAL CONNECTION



+ EXCITATION	RED
- EXCITATION	BLACK
+ SIGNAL	GREEN
- SIGNAL	WHITE
SHIELD	

