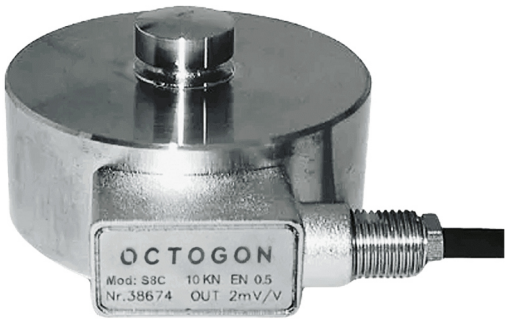
COMPRESSION LOAD CELL

COMPRESSION



- STAINLESS STEEL
- COMBINED ERROR ≤ ±0.03 %
  (≤ 0.02% AC0.5 on request)
- IP67 PROTECTION RATING

CE RoHS COMPLIANT REACH COMPLIANCE IP67 STAINLESS STEEL Ex DYNAMIC MEASUREMENT FULLY LASER WELDED ISO 376 REFERENCE STANDARD

NOMINAL LOAD (FS)

kg	kN	NET WEIGHT (kg)	COMBINED ERROR	ACCURACY CLASS AC		RoHS	Ex	ISO 376
				1	0.5			
500	5	2.08	≤±0.03 %	•	•	•	•	•
1 000	10	2.08	≤±0.03 %	•	•	•	•	•
2 500	25	2.08	≤±0.03 %	•	•	•	•	•
5 000	50	2.08	≤±0.03 %	•	•	•	•	•
10 000	100	2.08	≤±0.03 %	•	•	•	•	•
20 000	200	3.42	≤±0.03 %	•	•	•	•	•
30 000	300	3.42	≤±0.03 %	•	•	•	•	•
50 000	500	9.43	≤±0.03 %	•	•	•	•	•
75 000	750	9.43	≤±0.03 %	•	•	•	•	•
100 000	1 000	9.43	≤±0.03 %	•	•	•	•	•
150 000	1 500	18.2	≤±0.03 %	•	–	•	•	•
200 000	2 000	18.2	≤±0.03 %	•	–	•	•	•

– 0.5 class not available for 1 500 and 2 000 kN

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TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ±0.1 % at FS
Zero Balance	< ±1.0 %FS
Combined error	≤ ±0.03 %FS (AC1)
	≤ ±0.03 %FS (AC0.5)
Non-linearity	≤ ±0.03 %FS (AC1 | AC0.5)
Hysteresis	≤ ±0.03 %FS (AC1 | AV0.5))
Creep	≤ ±0.03 %FS (at 30 min FS)
Temperature coefficient on zero	≤ ±0.030 %FS
Temperature coefficient on span	0.003 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

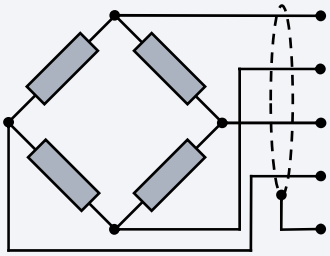
MECHANICAL PROPERTIES

Material	STAINLESS STEEL
Deflection at FN	~ 0.4 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	700 ± 20Ω
Output resistance	705 ± 2Ω
Insulation resistance	≥ 5 GΩ at 100 V
Recommended excitation voltage	max. 15 V
Cable diameter	5.2 mm
Cable length	5 m

ELECTRICAL CONNECTION

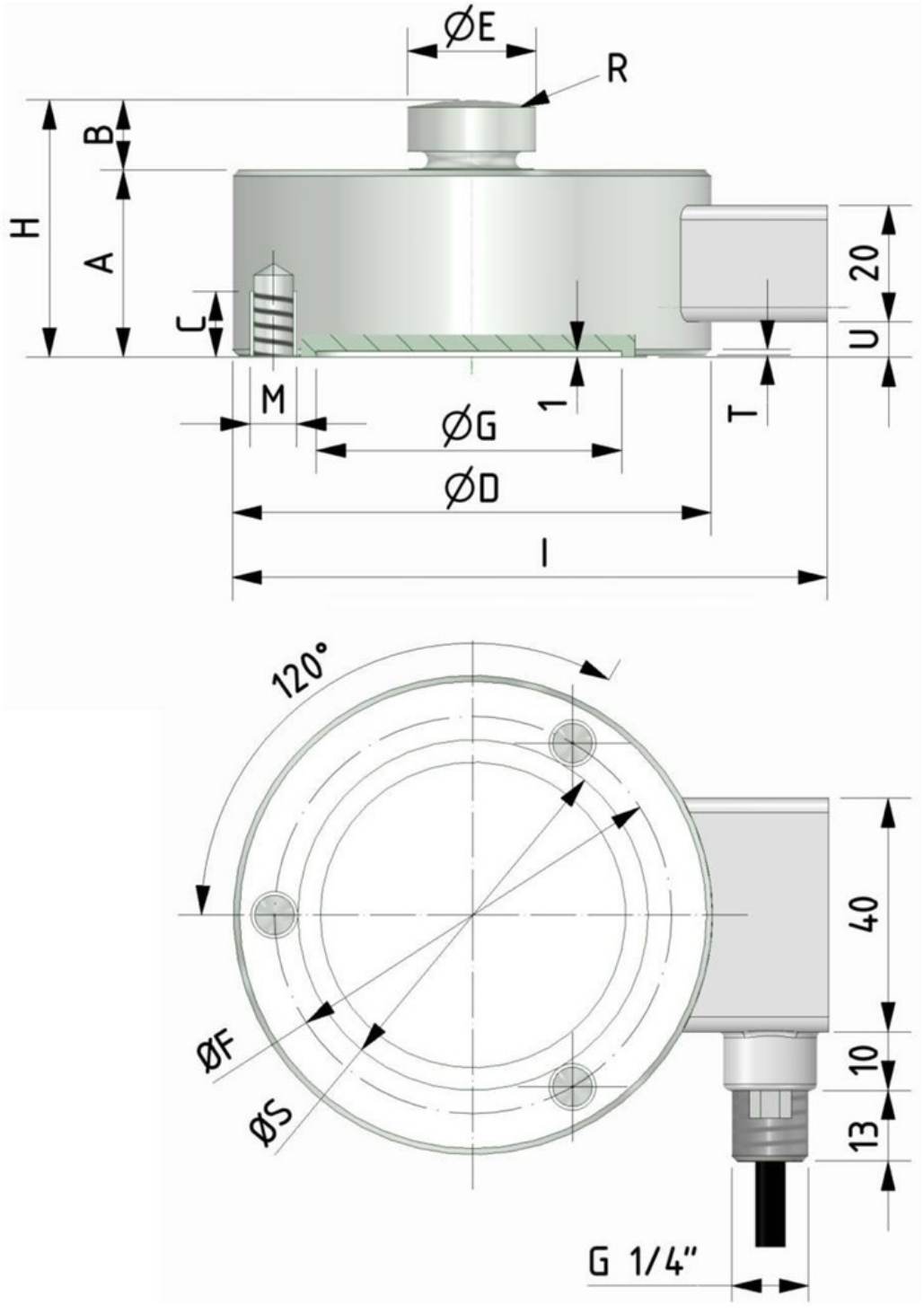


+ EXCITATION	Red
– EXCITATION	Black
+ SIGNAL	WHITE
– SIGNAL	YELLOW
SHIELD	

MECHANICAL LIMITS

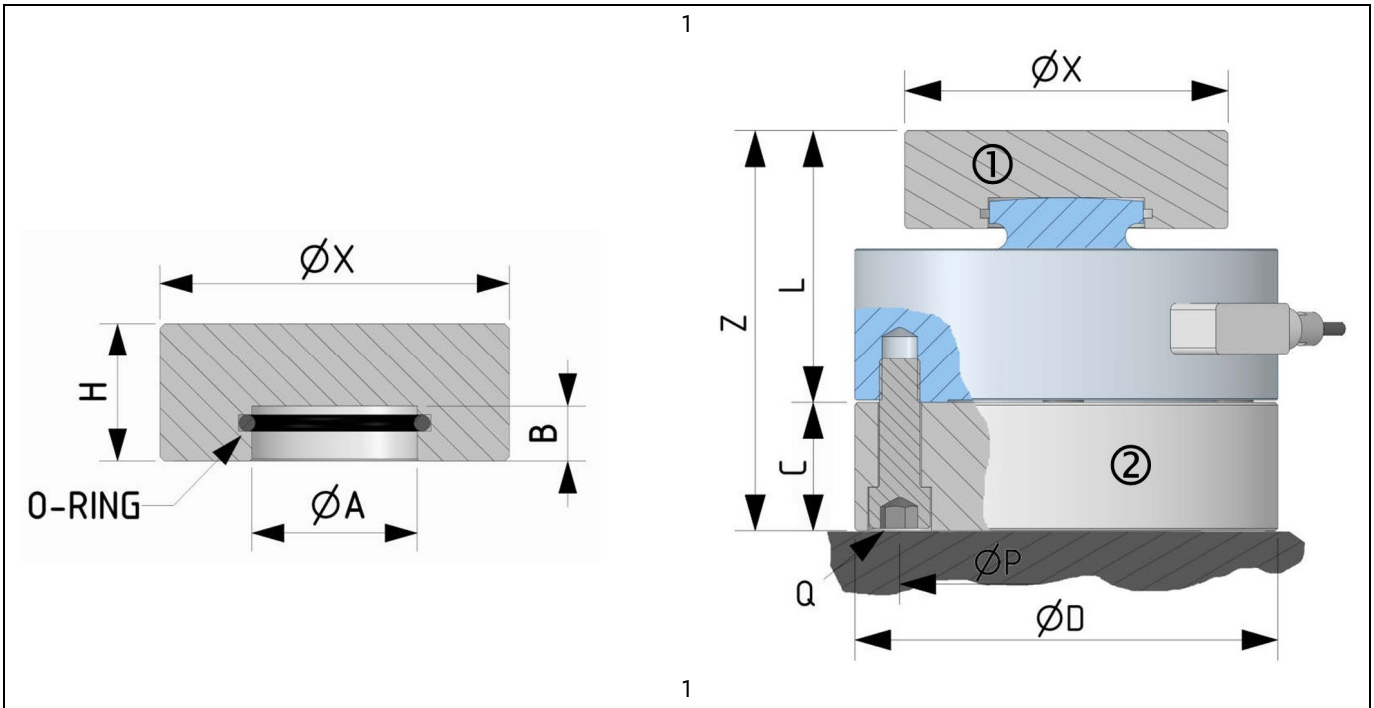
Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. 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	75 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

DIMENSIONS (mm)



Load	A	B	C	ØD	ØE	ØF	ØG	H	I	M	n°M	R	ØS	T	U
5 – 100 kN	32	12	11	82	22	68	52.3	44	102	M8	3	50	60	0.3	6
200 – 300 kN	50	14	12	126	35	90	77.3	64	148	M8	3	160	100	0.5	15
500 – 1 000 kN	60	20	20	165	60	130	92.3	80	188	M16	4	300	115	1	17
1 500 – 2 000 kN	80	30	20	200	80	152	107	110	223	M16	4	300	128	1	23

ACCESSORIES dimensions (mm)



C8S	ACCESORIES	ØX	ØA	B	C	D	L	Z	H	P	Q
5 – 100 kN	① Loading head ② Mounting plate	57	23	9	30	82	59	89	24	68	#3 M8x30
200 – 300 kN	① Loading head ② Mounting plate	76	36	12	50	126	82	132	30	90	#3 M8x50
500 – 1 000 kN	① Loading head ② Mounting plate	126	61	12	50	165	106	156	38	130	#3 M16x50
1 500 – 2 000 kN	① Loading head ② Mounting plate	128	81	21	50	200	157	207	68	152	#3 M16x50

COMPLIANCE AND CERTIFICATION

Protection Rating	IP67	
Compliance	CE, RoHS, REACH	
Calibration	Factory-calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications	Ex	II 2G Ex ib IIC T5 Gb II 2D Ex ib IIIC T115°C Db
	ISO 376	LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1000 kg to 10000 kg
Certifications (on request)	✓	Accredia traceable calibration report

OPTIONS (to be purchased separately)

CMIL6MF

- Direct output connector **MIL6M**

CMIL6FV5

- Female 6 poles straight **MIl6M** CONNECTOR complete PVC **CABLE**, shielded, length 5 m

CONNM12MF

- Direct output connector **M12**

CONNM12FV5

- Female 5 poles straight **M12x1** CONNECTOR complete PVC molded **CABLE**, shielded, length 3 m