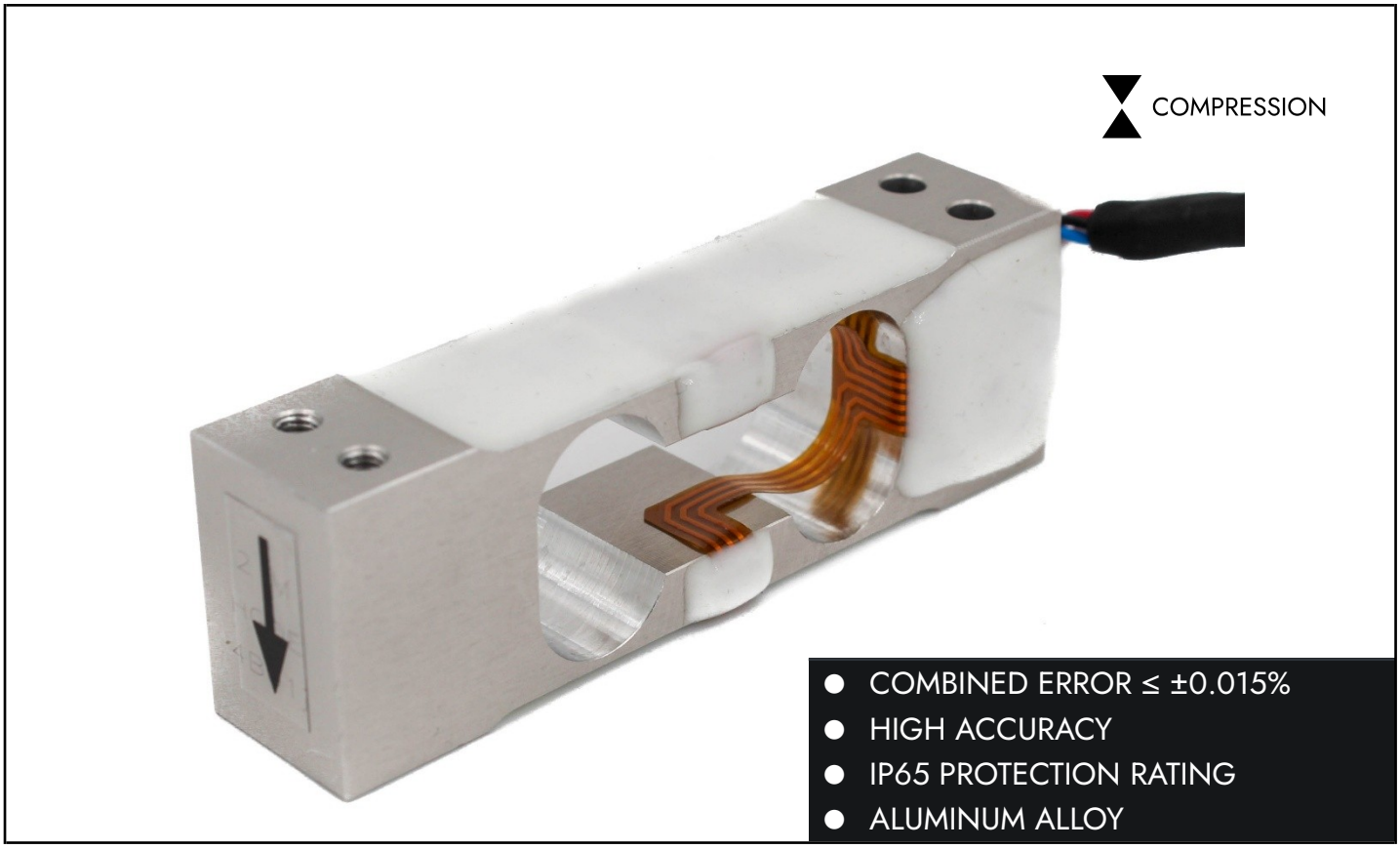
PLATFORM WEIGHING LOAD CELL



- COMBINED ERROR ≤ ±0.015%
- HIGH ACCURACY
- IP65 PROTECTION RATING
- ALUMINUM ALLOY

CE RoHS COMPLIANT REACH COMPLIANCE IP65 Aluminum Alloy ISO 17025 ACCREDITED LABORATORY mV/V

NOMINAL LOAD (FS)

kg	N (optional)	Net weight (kg)	Accuracy class	Rated Output
0.3	3	0.1	C3	1.0±10% mV/V
0.5	5	0.1	C3	1.0±10% mV/V
1	10	0.1	C3	2.0±10% mV/V
2	20	0.1	C3	2.0±10% mV/V
3	30	0.1	C3	2.0±10% mV/V
5	50	0.1	C3	2.0±10% mV/V

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TECHNICAL DATA

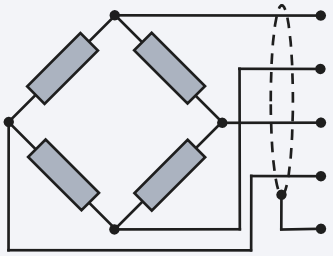
PRECISION

Rated Output (C_n)	1.0 mV/V ±10 % at FS (0.3...0.5 kg) 2.0 mV/V ±10 % at FS (1...5 kg)
Zero Balance	±2 %FS
Combined error	≤ ±0.015 %FS
Non-linearity	≤ ±0.015 %FS
Hysteresis	≤ ±0.015 %FS
Repeatability	≤ ±0.015 %FS
Creep	≤ ±0.0166 %FS (at 30 min FS)
Temperature coefficient of zero	0.002 %FS/°C
Temperature coefficient of sensitivity	0.0017 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-25...+70 °C
Reference Temperature	23 °C

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	380±40 Ω
Output resistance	380±40 Ω
Insulation resistance	≥ 5 000 MΩ at 100 V
Recommended excitation voltage	5...15 V
Cable diameter	4 mm
Cable length	400 mm

ELECTRICAL CONNECTION



+ EXCITATION	BLUE
– EXCITATION	BLACK
+ SIGNAL	WHITE
– SIGNAL	RED
SHIELD	

MECHANICAL PROPERTIES

Material	Aluminum Alloy
Deflection at FN	~ 0.4 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.

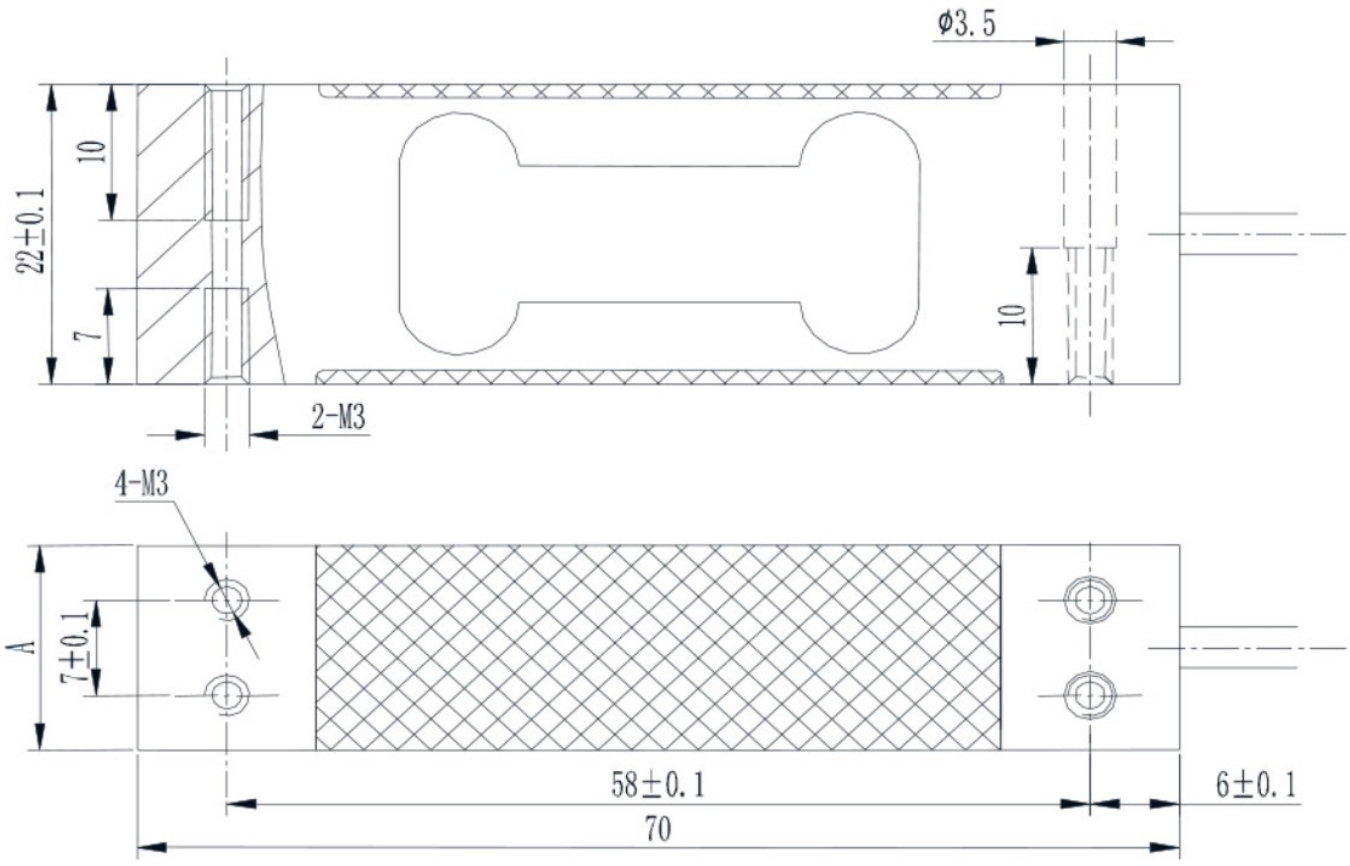
COMPLIANCE AND CERTIFICATION

Protection Rating	IP65 (IEC 60529)
Compliance	CE, RoHS, REACH
Calibration	Factory-calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80

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DIMENSIONS



	0.3...1 kg 3...10 N	2...5 kg 20...50 N
A [mm]	12	15