

AMPLIFIED SHEAR BEAM LOAD CELL



NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Fixing screws	Tightening torque	Output signal	Accuracy
350	3.5	1.1	M12	150 Nm	4-20 mA · 0.5-5.5 V · 0.5-10.5 V	0.03 %
500	5.0	1.1	M12	150 Nm	4-20 mA · 0.5-5.5 V · 0.5-10.5 V	0.03 %
1 000	10.0	1.1	M12	150 Nm	4-20 mA · 0.5-5.5 V · 0.5-10.5 V	0.03 %
2 000	20.0	1.1	M12	150 Nm	4-20 mA · 0.5-5.5 V · 0.5-10.5 V	0.03 %



TECHNICAL DATA

PRECISION

Accuracy	0.03 %
Calibration tolerance	$< \pm 0.1 \%$
Non-linearity	$\leq \pm 0.03 \%$
Non-repeatability	$\leq \pm 0.02 \%$
Temp. effect on zero / 10 °C	$\leq \pm 0.03 \%$
Temp. effect on sensitivity / 10 °C	$\leq \pm 0.02 \%$
Zero Balance	$\pm 1 \%$
Response frequency	~ 1 kHz
Temperature nominal range	-10...+40 °C
Service temperature	-20...+70 °C
Storage temperature	-20...+80 °C
Reference Temperature	+23 °C

MECHANICAL PROPERTIES

Material	Stainless steel, laser welded
Displacement at FN	~ 0.2 mm
Fixing screws	M12 · class 12.9 · 150 Nm

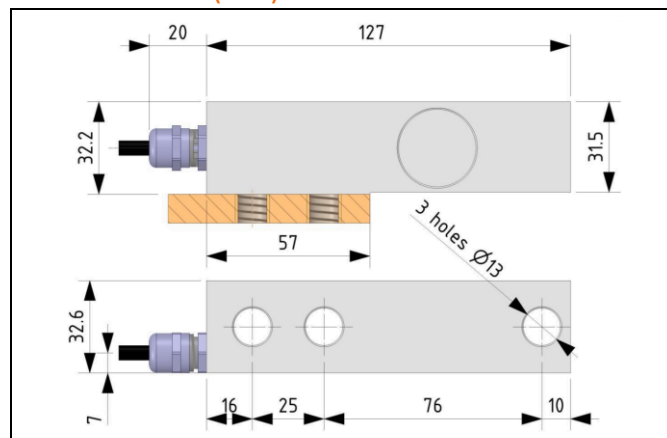
ELECTRICAL PROPERTIES

Output signal	4–20 mA (3 wires) · 0.5–5.5 V · 0.5–10.5 V
Power supply 4–20 mA · 0.5–5.5 V	12 – 24 Vdc
Power supply 0.5–10.5 V	18 – 24 Vdc
Max. absorption, no load	15 mA
Loading resistance	min. 3 k Ω (voltage) · 0 ... 470 Ω (current)
Insulation resistance	> 2 G Ω
Fuse on POWER +	external 50 – 100 mA, fast-blow
Cable	PVC 105 °C, Ø 5.2 mm, 4 × 0.35 mm ²
Cable length	5 m (10 m on request)

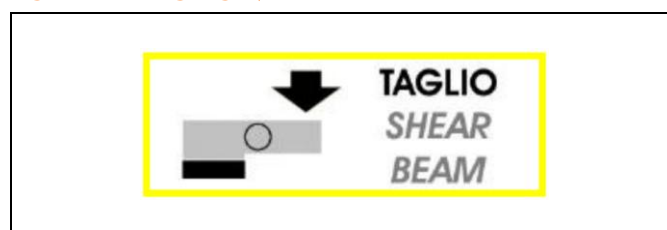
MECHANICAL LIMITS

Service load	120 %FS	No permanent deformation, no change in calibration.
Max. permissible load	150 %FS	Highest static load that may be applied briefly without damage.
Breaking load	> 300 %FS	Load at which permanent deformation or fracture occurs.
Max. transverse load (side)	50 %FS	Maximum lateral load, e.g. from misalignment or friction.
Max. permissible dynamic load	50 %FS	Amplitude limit for cyclic loads, against fatigue failure.

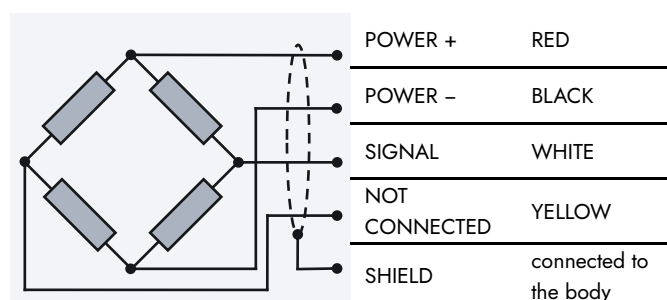
DIMENSIONS (mm)



LOAD DIRECTION



ELECTRICAL CONNECTION



COMPLIANCE AND CERTIFICATION

Protection Rating	IP68 (EN 60529) — 100 h at 1 m water column
Compliance	CE, RoHS, EAC
Calibration	Factory-calibrated
Manufacturer approvals	ATEX production quality assurance notification TÜV CY 17 ATEX 0205891 Q · ISO 17025 accredited laboratory (optional) · EN ISO 9001:2015 (Dasa-Rägiſter IQ-1100-01)
HS-CODE	9031.80.80 (octogon)

MOUNTING KITS AND ACCESSORIES

Code	Description	Application range
LMAAC	Weighing unit in stainless steel with elastomer bearing, for the direct installation of the load cell in tanks, silos and hoppers. Load cell not included.	350 kg ... 2 t

LMAAC
Unità di pesatura.
Weighing unit.

