

TS-AMP

Amplified load cell

Accessories

A

Rod end bearings

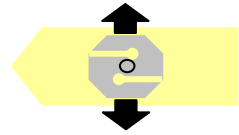


Protection Class: IP65
Completely LASER welded
Long term high stability
For dynamic applications

OUT
4-20mA

OUT
± 5V

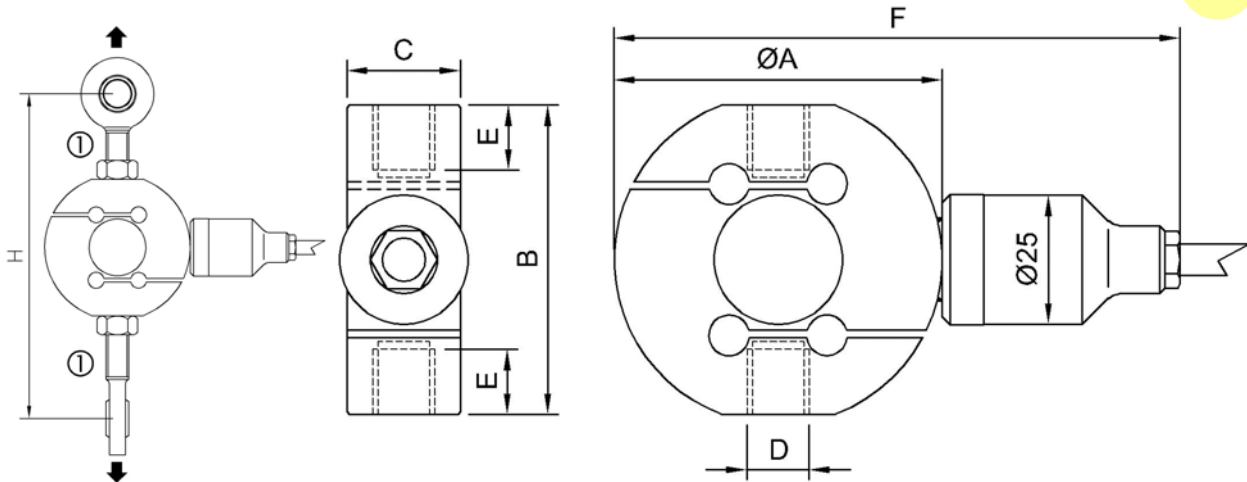
OUT
± 10V



RoHS
COMPLIANCE

Dimensions

[mm]



①

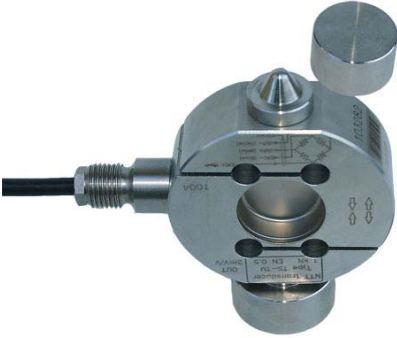
ACCESSORIES
Rod end bearings

LOAD	CODE
25 ÷ 500 kg	PFE12U
500 kg ÷ 2t	PFE16U
2.5 t	PFE20U
5, 7.5 t	PFE25U

LOAD	A	B	C	D	E	F	H
10 kg							
25 kg							
50 kg							
100 kg	63.5	59.5	22	M12X1.75	12	~112	~ 134
200 kg							
300 kg							
500 kg							
1 t	82	78	30	M16X2	20	~130	~ 170
2 t							
2.5t	82	78	30	M20X1.5	20	~130	~ 194
5 t							
7.5t	102	90	45	M24X2	21.5	~150	~ 235

Technical Data

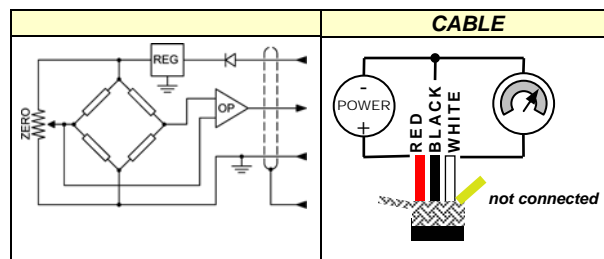


 <p>TS-AMP Compression kit</p>	ACCURACY 0.03%
	NOMINAL LOAD (E_{max}) 10 - 25 - 50 - 100 - 200 - 300 - 500 kg 1 - 2 - 2.5 - 5 - 7.5 t
	NOMINAL SENSITIVITY CALIBRATION TOLERANCE 4-20 mA (3 wires), $\pm 5V^*$ or $\pm 10V^*$ $< \pm 0.1\%$
	NON LINEARITY NON REPEATABILITY $\leq \pm 0.023\%$ $\leq \pm 0.015\%$
	TEMPERATURE EFFECT (10 °C) a) on zero b) on sensitivity $\leq \pm 0.028\%$ $\leq \pm 0.012\%$
	NOMINAL POWER SUPPLY 4-20mA and $\pm 5V \rightarrow 12-24Vdc$ $\pm 10V \rightarrow 18-24Vdc$
	MAX. POWER SUPPLY MAX. ABSORPTION (without load applied) LOADING RESISTANCE: a) tension b) current INSULATION RESISTANCE ZERO BALANCE RESPONSE FREQUENCY 28Vdc 30mA min. 3K Ω from 0 to 470 Ω $> 2 G\Omega$ $\pm 1\%$ from 0.5 to 5 kHz
	MECHANICAL LIMIT values referred to nominal load: a) minimum load b) service load c) max permissible load d) breaking load e) max transverse load f) max permissible dynamic load DISPLACEMENT AT NOMINAL LOAD 0% 120% 150% $> 300\%$ 100% 50% ~ 0.2 mm
	REFERENCE TEMPERATURE TEMPERATURE NOMINAL RANGE SERVICE TEMPERATURE STORAGE TEMPERATURE +23°C -10/+40 °C -20/+70 °C -20/+80 °C
	WEIGHT PROTECTION CLASS (EN 60529) EXECUTION MATERIAL CABLE LENGTH ~ 0.6 kg ~ 1.2 kg ~ 2.6 kg IP65 Stainless Steel 3m

Acceleration of gravity $g=9.80434 \text{ m/s}^2$
 Positive output in tension

Electrical Connections

PVC 70°C shielded cable, $\varnothing 4.2\text{mm}$ with 4 tinned $\varnothing 0.14 \text{ mm}^2$ conductors.



Shield connected to the body of the load cell.