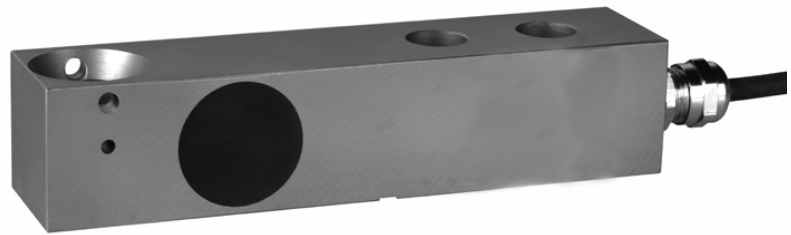


Shear beam for compression forces up to 2268 kg



Description

tecsis load cells are designed to meet the most stringent accuracy requirements. Certifications have been obtained from Weights & Measures Authorities, worldwide.

tecsis load cells are available in the capacities 200 lb to 5000 lb (91 kg to 2268 kg) and include Accuracy Classifications GP, C1 and C3 according to OIML R 60; NTEP $n_{\max}=7500$.

Because of the stainless steel construction and improved potting compound, they suit for the use in tough industrial environments.

The unique "blind" loading hole combined with the available tectsis loading hardware provides an excellent price performance ratio.

It allows very low profile platform design and offers advantages in all kinds of weighing applications.

A version with metric or unified threaded loading hole is available as well.

The tectsis calibration technique (in $mV/V/\Omega$) eliminates time consuming corner calibration in multiple load cells systems.

The F3270 is available for use in hazardous areas zone 1, 2 (gas) and 21, 22 (dust) according to EEx ia IIC T6...T4 T150°C ATEX.

Features

- Robust design, high long term stability
- Ease of assembly
- Low-profile design
- High input resistance: 1100 Ω

Measuring ranges

- 91 kg ... 2268 kg

Applications

- weighing & dosing applications, force measurement
- platform scales
- production lines
- testing and manufacturing plants

Specific information

- Load input elements available (option)

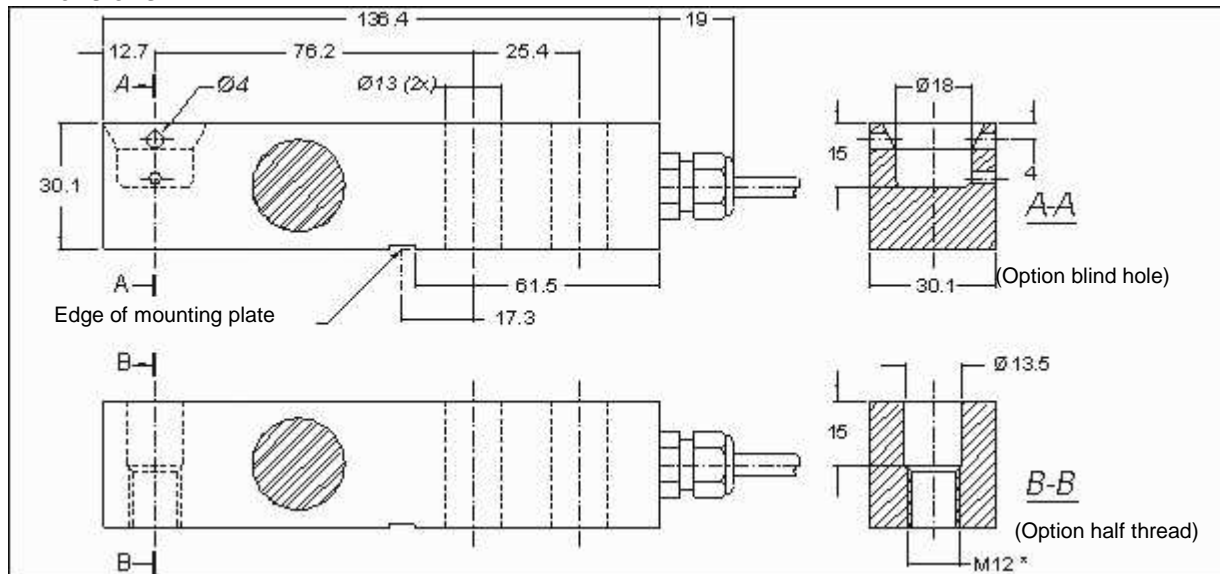
Model: F3270

Technical data

Model	F3270	Option
Nominal load F_{nom} lb kg (1lb = 0,45359 kg)	200, 500, 1000, 2500, 5000 91, 227, 454, 1134, 2268	
Limit load	200 % F_{nom}	
Breaking load	> 300% F_{nom}	
Combined error	$\leq \pm 0.04$ % of F.S.	$\leq \pm 0.02$ % of F.S.
Creep (30 min. at F_{nom})	$\leq \pm 0.06$ % of F.S.	$\leq \pm 0.016$ % of F.S.
Nominal deflection	< 0,6 mm	
Nominal temperature range	-10 ... +40°C	
Service temperature range	-20 ... +65°C	
Storage temperature range	-40 ... +65°C	
Reference temperature	23°C	
Temperature effect - span - zero	$\leq \pm 0.02$ % of F.S. /10 K $\leq \pm 0.04$ % of F.S. /10 K	$\leq \pm 0.011$ % of F.S. /10 K $\leq \pm 0.011$ % of F.S. /10 K
Protection type (acc. to EN 60529/IEC 529)	IP 67	
Insulation resistance	5 G Ω / 50 V	
Analogue output		
- Output signal	2 mV/V	
- Bridge resistance	Input: 1106 \pm 5 Ω Output: 1000 \pm 1 Ω	
- Tolerance of span	$\leq \pm 0.1$ % of F.S.	
- Zero	$\leq \pm 1$ % of F.S.	
- Excitation voltage	10 V (max. 15 V)	
- Electrical connection	Cable 3 m, 4-wire, shielded	
Sealing	potted	
Mounting momentum	see chart below	
Material of measuring device	Stainless steel	

of F.S. = full scale value

Dimensions



All dimensions in mm. Dimensions and specifications are subject to change without notice.

Mounting bolts for 200 lb to 2500 lb: M12 8.8 / torque 90 Nm; for 5000 lb: M12 10.9 / torque 120 Nm.

Torque values assume oiled threads.

* Unified thread 1/2-20 UNF is available

E connection	Conductor marking
Supply (-)	black
Supply. (+)	green
Sign. (+)	white
Sign.(-)	red
Screen	yellow

Subject to technical changes