

Product Description

The type PC81 is an aluminium high capacity single point load cell with a high performance potting for superior environmental protection. Designed for rugged industrial applications.

Application

- On-board vehicle weighing, floor scales, conveyor scales, hopper and tank weighing systems

Key Features

- Capacity of 2 000 kg
- Aluminium construction for minimised weight
- Environmental Protection IP67
- Side mount, rugged design with low sensitivity to moment
- Maximum platform size up to 1400 x 1400 mm nominal

Packed Weight

- 4.0 kg

Available Accessories

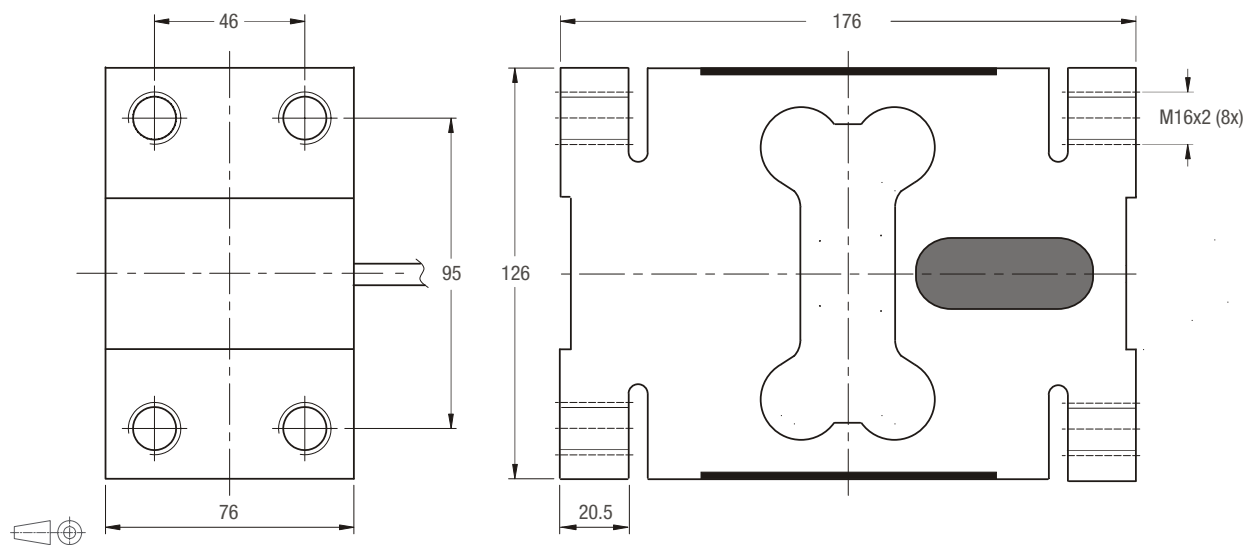
- Compatible range of electronics

Specifications

	(E _{max})	kg	2000	
			GP	G3
Maximum capacity				
Accuracy class				
Temperature effect on minimum dead load output (TC ₀)	%*RO/10°C		≤ ± 0.0400	≤ ± 0.0230
Temperature effect on sensitivity (TC _{RO})	%*RO/10°C		≤ ± 0.0200	≤ ± 0.0100
Combined error	%*RO		≤ ± 0.0500	≤ ± 0.0200
Non-linearity	%*RO		≤ ± 0.0400	≤ ± 0.0166
Hysteresis	%*RO		≤ ± 0.0400	≤ ± 0.0166
Creep error (30 minutes) / DR	%*RO		≤ ± 0.0600	≤ ± 0.0166
Rated Output (RO)	mV/V		2 ± 10%	
Zero balance	%*RO		≤ ± 10	
Excitation voltage	V		5...15	
Input resistance (R _{LC})	Ω		410 ± 15	
Output resistance (R _{out})	Ω		350 ± 3	
Insulation resistance (100 V DC)	MΩ		≥ 5000	
Safe load limit (E _{lim})	%*E _{max}		150	
Ultimate load	%*E _{max}		300	
Safe side load	%*E _{max}		100	
Maximum platform size	mm		1 400 x 1 400	
Maximum off centre distance at maximum capacity	mm		175	
Compensated temperature range	°C		-10...+40	
Operating temperature range	°C		-30...+70	
Load cell material			aluminium	
Sealing			potted	
Protection according EN 60 529			IP67	

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

Dimensions (in mm)



Mounting bolts M16x2; torque 200 Nm. Torque value assumes oiled threads.

Wiring

- The load cell is provided with a shielded 6 conductor cable (AWG 26).
Cable jacket polyurethane
- Cable length: 6 m
- Cable diameter: 5.8 mm
- The shield is connected to the load cell body

