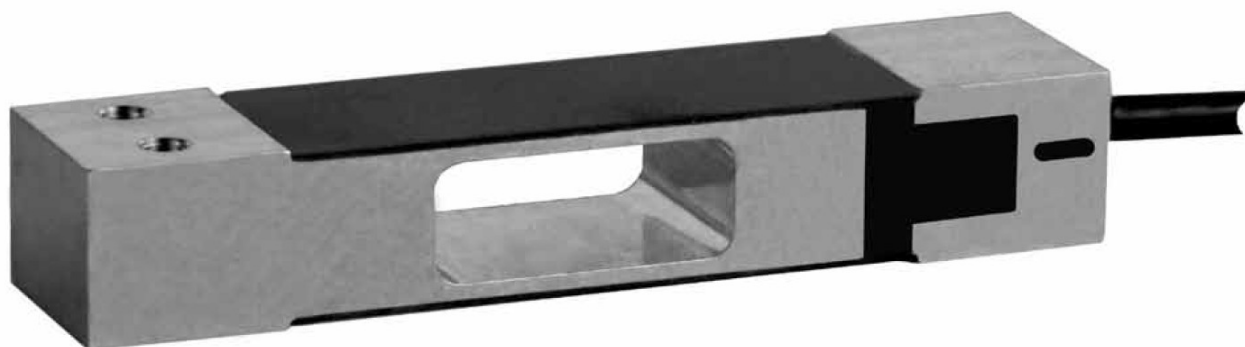


Type PC22 Load Cell



Product Description

The type PC22 is an aluminium single point load cell with an improved potting.

Application

- Retail scales and bench scales

Key Features

- Capacities from 5 kg to 40 kg
- Aluminium construction
- Environmental Protection IP67
- Low profile design
- Maximum platform size up to 350 x 350 mm

Approvals

- OIML approval to C3 (Y = 6 000)
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

Option

- Y = 12 000 for C3

Packed Weight

- 0.35 kg

Available Accessories

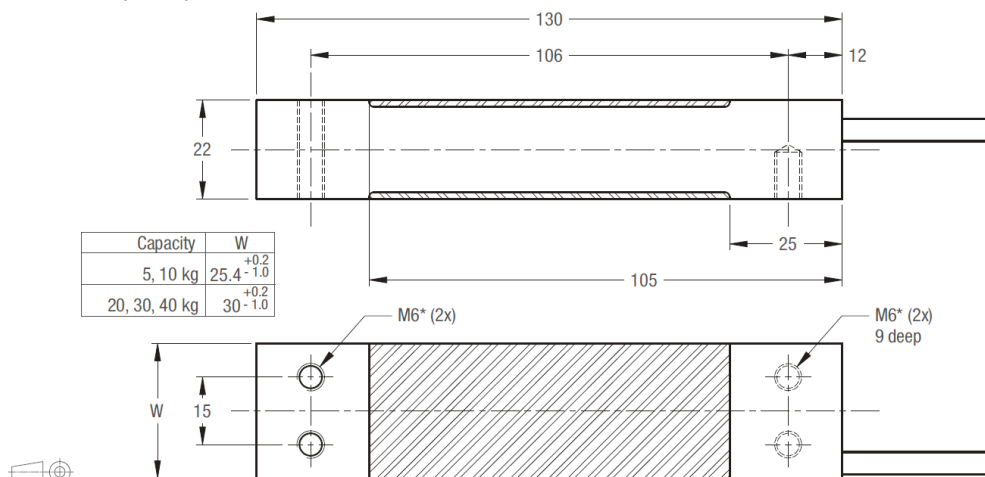
- Compatible range of electronics

Specifications

Maximum capacity	(E _{max})	kg	5 / 10 / 20 / 30 / 40	
Accuracy class according to OIML R60			(GP)	C3
Maximum number of verification intervals	(n _{LC})		n.a.	3 000
Minimum load cell verification interval	(V _{min})		n.a.	E _{max} / 6 000
Temperature effect on minimum dead load output	(TC ₀)	%•RO/10°C	± 0.0400	± 0.0233
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
Option	Min. load cell verification interval	(V _{min opt})	n.a.	E _{max} / 12 000
	Temp. effect on min. dead load output	(TC _{0 opt})	%•RO/10°C	± 0.0117
Rated Output	(RO)	mV/V	2 ± 10%	
Zero balance		%•RO	± 5	
Excitation voltage		V	5...15	
Input resistance	(R _{LC})	Ω	413 ± 20	
Output resistance	(R _{out})	Ω	350 ± 25	
Insulation resistance (100 V DC)		MΩ	≥ 5 000	
Safe load limit	(E _{lim})	%•E _{max}	150	
Ultimate load		%•E _{max}	300	
Safe side load		%•E _{max}	100	
Maximum platform size; loading acc. to OIML R76		mm	350 x 350	
Maximum off centre distance at maximum capacity		mm	115	
Compensated temperature range		°C	-10...+40	
Operating temperature range		°C	-20...+65 (ATEX -20...+60)	
Load cell material			aluminium	
Sealing			potted	
Protection according EN 60 529			IP67	

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.
The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with p_{LC}=0.7..

Dimensions (in mm)



Mounting bolts M6 8.8; torque 10 Nm. Torque value assumes oiled threads.
* Unified thread 1/4-20 UNC is available.

Wiring

- The load cell is provided with a shielded, 6 conductor cable (AWG 26).
Cable jacket polyurethane
- Cable length: 2 m
- Cable diameter: 5 mm
- The shield is connected to the load cell body

