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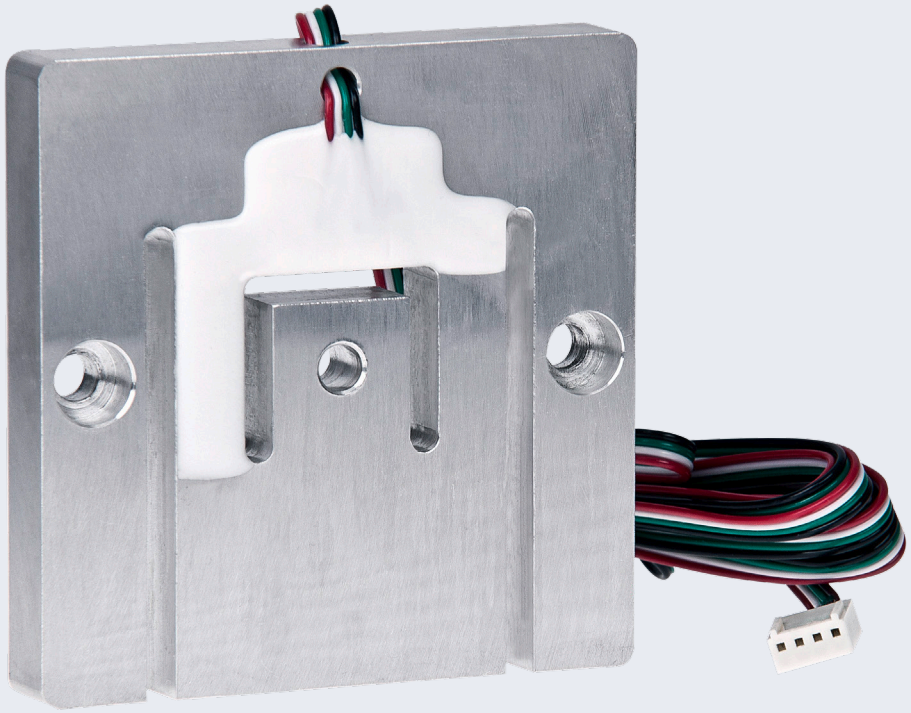
Planar beam load cell *P20A*



Features

- Very low construction height
- Material: Aluminium
- Nominal load: 11.3 - 109 kg
- Protection class: IP 65
- Structure: The measuring element has a plastic cover, and is output current calibrated
- The load cell has a 4-wire flat-ribbon cable with a connector
- Particularly robust for long-term use in industrial applications
- Approval: OIML R60 C3; test certificate number: D09-03.03

Scope of application:

- Personal scales
- Medical scales
- Flat compact scales
- Table scales
- Floor scales
- Sales scales
- Counting scales
- Special applications in medical technology and other areas

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Planar beam load cell *P20A*

Enables the construction of scales with extremely low overall height

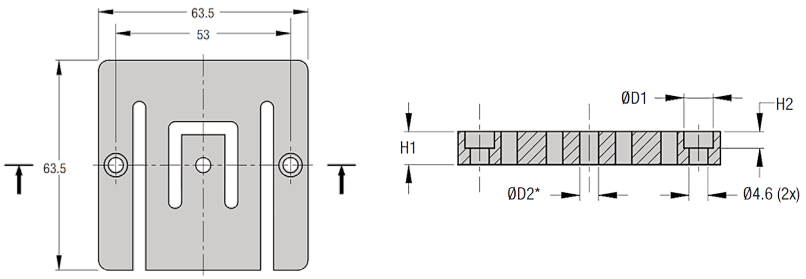
The Planar Beam load cells were developed as a low-cost solution for scales with a low overall height and practically any dimensions. The P20A load cell is a very compact and low profile aluminium Planar Beam load cell. Its unique design allows the construction of scales with extremely low headroom. Its special design with wing-like mounting arms simplifies installation and ensures optimal functional characteristics in any scale design.
The use of 3 or 4 load cells is an alternative to a common single point arrangement and offers the advantage of virtually unlimited platform size. A 4-core ribbon cable with a connector allows for quick installation.

TECHNICAL DETAILS

Accuracy class according to OIML R 60:		C3
Nominal load (E_{max})		25 lb I 11,3 kg, 50 lb I 22,7 kg, 100 lb I 45,4 kg, 240 lb I 109 kg
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	0.9 ± 0,1% / 1.09* ± 0,1%
Characteristic value of the relative minimum division value d. WZ (Y = Emax / vmin):	% from Emax	7.500
Minimum preload (E_{min})		0
Limit load (EL)	% from Emax	250
Breaking load (Ed):	% from Emax	400
Recommended supply voltage (Uref) **Maximum permissible supply voltage (BU)**	V	5 - 12 15
Zero adjustment	% v. Cn	≤ ± 5
Input resistance (RLC) at reference temperature	Ω	1.180 ± 50
Output resistance (RO) at reference temperature	Ω	1000 ± 10
Insulation resistance	MΩ	> 5 000
Nominal temperature range (BT)	°C	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 65
Cable length		on request
Material		Aluminium

*The safe load limit is 250% of EMAX for the 240lb I 109 kg model.

TECHNICAL DRAWINGS



Load	H1	H2	D1	D2	Deflection (mm) et Emax
25 lb / 11,3 kg	3,2	-	-	4,2	0,49
50 lb / 22,7 kg	4	-	-	6,2	0,48
100 lb / 45,4 kg	6,4	-	-	6,2	
240 lb / 109 kg	8	3,2	7,4	8	0,46

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