Platform load cell
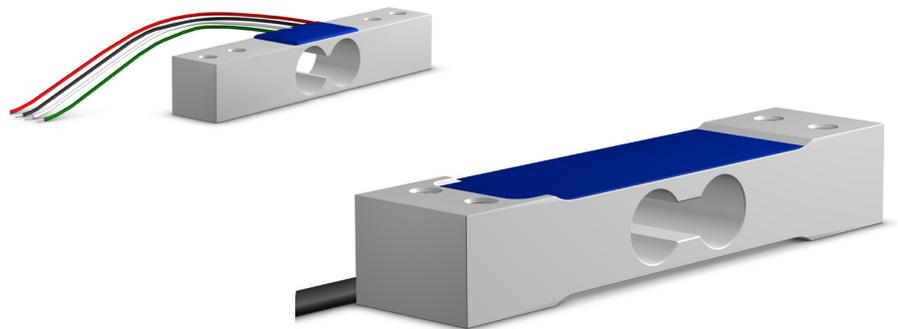# BR X.X

For compression loads
Nominal loads from 5 kg to 100 kg
Encased design IP 65

Platform scales
Force and load measurement

Designed, developed and made in Germany

Type BR platform load cells measure static and dynamic compression loads. They are designed for small to medium loads up to a maximum of 100 kg.
These load cells serve as classic single-point load cells. An individual load cell enables the weighing of weights on a platform, regardless of their position. For this reason, these load cells are primarily used in platform scales. They are also used for many other load and force measurements.

Mounting is realised simply with two screws each for load application and removal. In the case of platform scales, the load cell is secured in the middle of the weighing platform.
These load cells can be optionally equipped with an external measuring amplifier for longer transmission distances.

Technical data

Type	BR 1.0	BR 2.0	BR 2.1	BR 2.2
Nominal load [kg]	5	10	35	100
Output signal Sig	$\approx$ 2 mV/V			
Supply U_b	< 10 V			
Material	Aluminium			
Maximum working load*	1.2 x nominal load			
Limit load*	1.5 x nominal load			
Breaking load*	> 3 x nominal load			
Accuracy	±0.25% f.s.**			
Reference temperature	20°C			
Nominal temperature range	−10°C to +50°C			
Working temperature range	−30°C to +50°C			
Temperature coefficient of gain	< 0.1% f.s.**/10 K			
Temperature coefficient of zero	< 0.2% f.s.**/10 K			
Input bridge resistor	400 Ω			
Output bridge resistor	350 Ω			
Insulation resistance	> 1 GΩ			
Max. power consumption	40 mA			
Electrical protection	Reverse voltage, overvoltage and short circuit protection			
Cable type	following consultation			
Connection	U_b+: BN | Sig+: GN | GND: WH | Sig−: YE			
Nominal deflection	< 0.1 mm			
Degree of protection	IP 65			

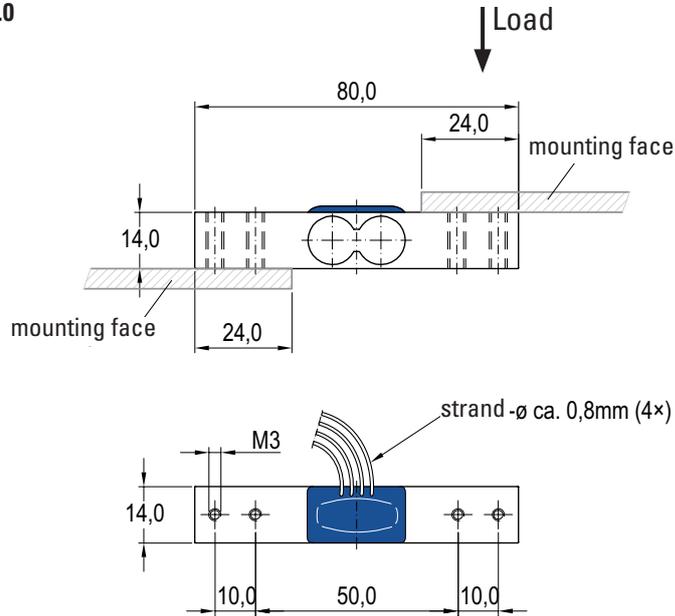* The sum of the dynamic and static load is decisive

** f.s. = full scale value

Options

» Other output level with external measuring amplifier
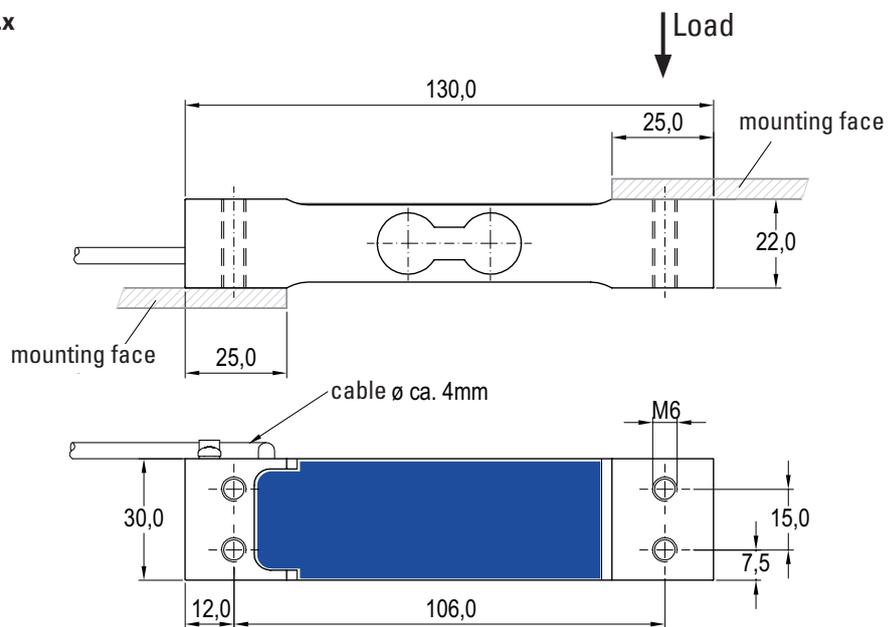» Other dimensions and designs available on request

Dimensions

in mm

BR 1.0

Load

80,0

24,0

mounting face

14,0

mounting face

24,0

M3

strand -ø ca. 0,8mm (4×)

14,0

10,0   50,0   10,0

BR 2.x

Load

130,0

25,0

mounting face

22,0

mounting face

25,0

cable ø ca. 4mm

M6

30,0

15,0

7,5

12,0   106,0

Dimensions in mm