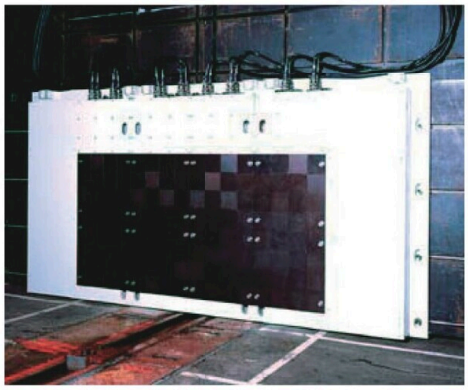
Barrier Load Cell



Measure distributed load over impact surface

- Rated capacity: 300, 500 kN (per cell)
- Available for offset, pole, and moving barriers

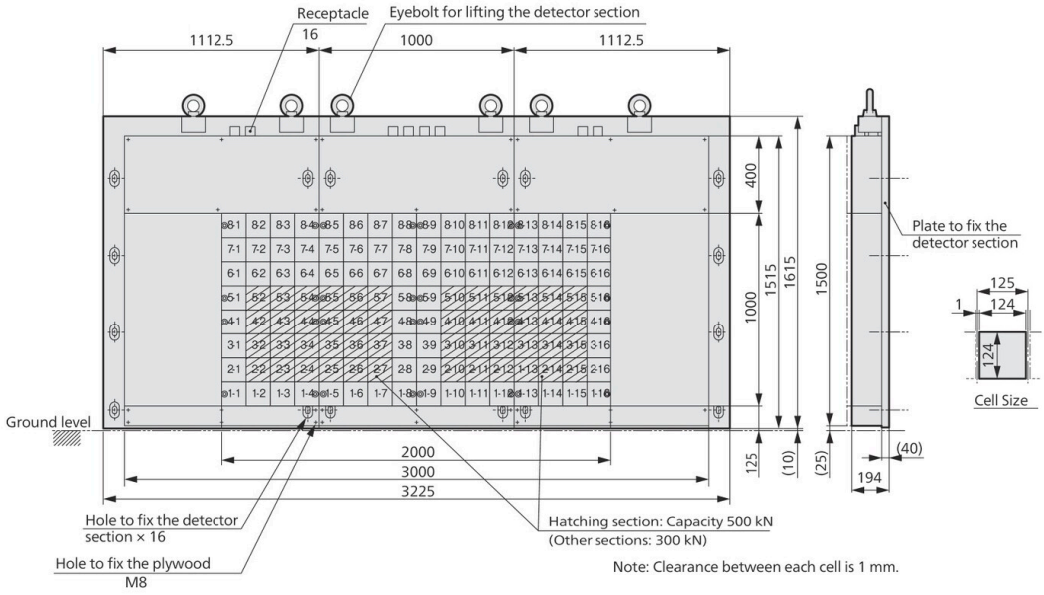
Attached to a fixed barrier surface, it uses a strain gage sensor to detect impact force on the load area.
The detection surface has a 128-cell (8×16 matrix) to measure distributed load.
The detection works perpendicular to the barrier surface.

Specifications

Performance	
Rated Capacity	500 kN × 48 cells
	300 kN × 80 cells
Nonlinearity	Within ±1% RO (In static calibration)
Hysteresis	Within ±1% RO (In static calibration)
Rated Output	Approx. 0.75 mV/V for each cell
Environmental Characteristics	
Safe Temperature	−10 to 70°C
Compensated Temperature	0 to 60°C
Temperature Effect on Zero	Within ±0.1% RO/°C
Electrical Characteristics	
Safe Excitation	10 V AC or DC
Recommended Excitation	1 to 5 V AC or DC
Input Resistance	350 Ω ±3%
Output Resistance	350 Ω ±3%
Cable	18-channel 4-conductor (0.18 mm²) vinyl shielded cable,
	20 mm diameter by 15 m long, terminated
	with connector plugs at both ends
Mechanical Properties	
Safe Overloads	120%
Natural Frequencies	250 Hz or more

*Specifications and design are subject to change without notice.
*Please contact us for information on product warranties.
*Rated capacity, number of divisions and unit dimensions are available in accordance with your specifications.

■Dimensions



Note: Clearance between each cell is 1 mm.