



#### Main features

- Range of measurement: from 5 to 100 kg
- Accuracy class: C (OIML R60)
- May be mounted directly on the weighing platform
- Humidity resistant: conform to OIML R60
- Low cost
- Applicable Platform: 400 x 400 mm
- Certified by NMI Institute according to:  
**OIML R60 Certificate nr. TC2330**

The OC series load cells have been designed for all applications requiring accurate weighing of loads on a platform, as well as for general applications in conformity with the OIML standards.

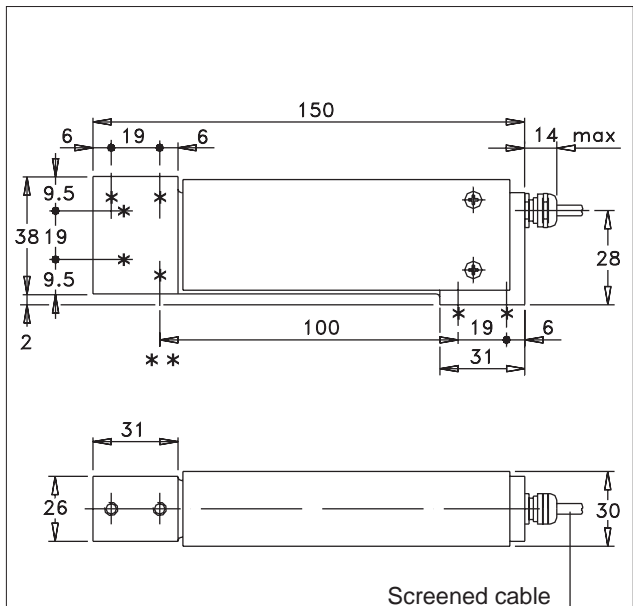
In all these cases, the OC load cell is the heart of the mechanical design. Infact they provide automatic compensation for eccentric loads on platforms up to 400x400mm without the need of mechanical calibrations. The OC series low profile load cells are used in weighing machines for piece counting, bottling, dosing, weighing parcels, fiscal weighing, pharmaceutical weighing, etc.

#### TECHNICAL DATA

Accuracy (OIML IR60)	C1	C2	C3
Divisions	1000	2000	3000
Nominal full scale load (Ln)	5...100 kg		
Nominal full scale output FSO	2 mV/V		
Output tolerance at Ln	< ± 10% FSO		
Combined error * (Linearity, Hysteresis, Repetibility)	C1	< ± 0,05 % FSO	
	C2/C3	< ± 0,03 % FSO	
Creep (after 30 min. at Ln) %FSO	< ± 0,05	< ± 0,025	< ± 0,017
Zero load out of balance signal	< ± 10% FSO		
Thermal drift in compensated * range %FSO°C	Sensitivity	< ± 0,003	< ± 0,0015
	Zero Calibration	< ± 0,009	< ± 0,006
Error for eccentric load (with 1/3 Ln) on 400 x 400 platform (%FSO)		< ± 0,05	< ± 0,03
		< ± 0,03	< ± 0,03
Nominal input resistance	430 Ohm		
Nominal output resistance	350 Ohm		
Isolation resistance	> 10 GOhm		
Nominal supply voltage	10 V		
Maximum supply voltage	15 V		
Compensated temperature range	-10...+40°C		
Maximum temperature range	-20...+50°C		
Storage temperature range	-25...+70°C		
Permitted static load	100% Ln		
Maximum applicable load	150% Ln		
Maximum elastic deformation at Ln	< 0,5 mm		
Protection / Case	Silicon / Nylon 66 G20 W0		
Electr. connections: screened cable	4x0,25 1m.		
Elastic element material	Aluminium		

\* The combined errors and thermal drift of sensitivity are within the framework defined by the OIML IR60

#### MECHANICAL DIMENSIONS



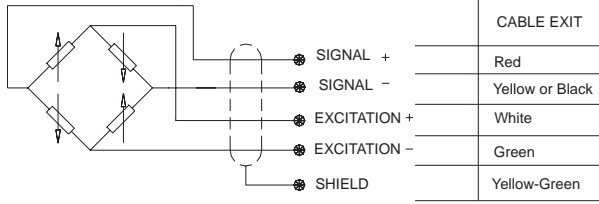
\* 7 M6 HOLES WITH THREAD DEPTH OF 10 mm

\*\* SEAT FOR SHEAR PIN

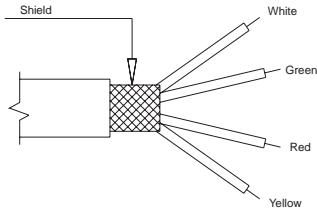
Dimensions mm. (± 0,1)

Recommended torque for M6 fixing screws: **7Nm**

## ELECTRICAL CONNECTIONS



**4x0.25  
Screened cable**



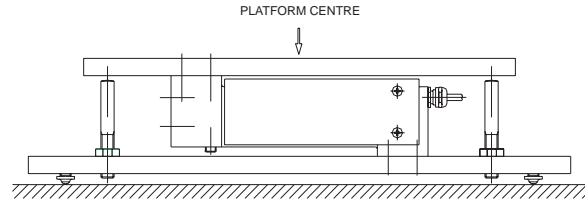
\* The screen is isolated from the transducer body.  
It is recommended that the ground is connected at the instrument end.

## CONVERSION TABLE

Kg	N	Lb
1	9.807	2.205
0.102	1	0.225
0.454	4.448	1

## OPTIONAL ACCESSORIES

## APPLICATION NOTES



Example of a load cell for a platform with overload end stops fitted under the corners and on the load cell itself.

## ORDER CODE

Load cell **OC**

MEASUREMENT RANGE (kg)	
0 - 5	<b>K5U</b>
0 - 7.5	<b>K7.5U</b>
0 - 10	<b>K1D</b>
0 - 20	<b>K2D</b>
0 - 35	<b>K3.5D</b>
0 - 50	<b>K5D</b>
0 - 75	<b>K7.5D</b>
0 - 100	<b>K1C</b>

CLASS OF ACCURACY OIML	
C1 1000 divisions	<b>C1</b>
C2 2000 divisions	<b>C2</b>
C3 3000 divisions	<b>C3</b>

If request, it is possible to supply models with non-standard mechanical and/or electrical features.

**Ex.: OC - K1D - C2**

OC load cell, measurement range 0 - 10 kg, accuracy class C2/2000 divisions.

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.