



Main features

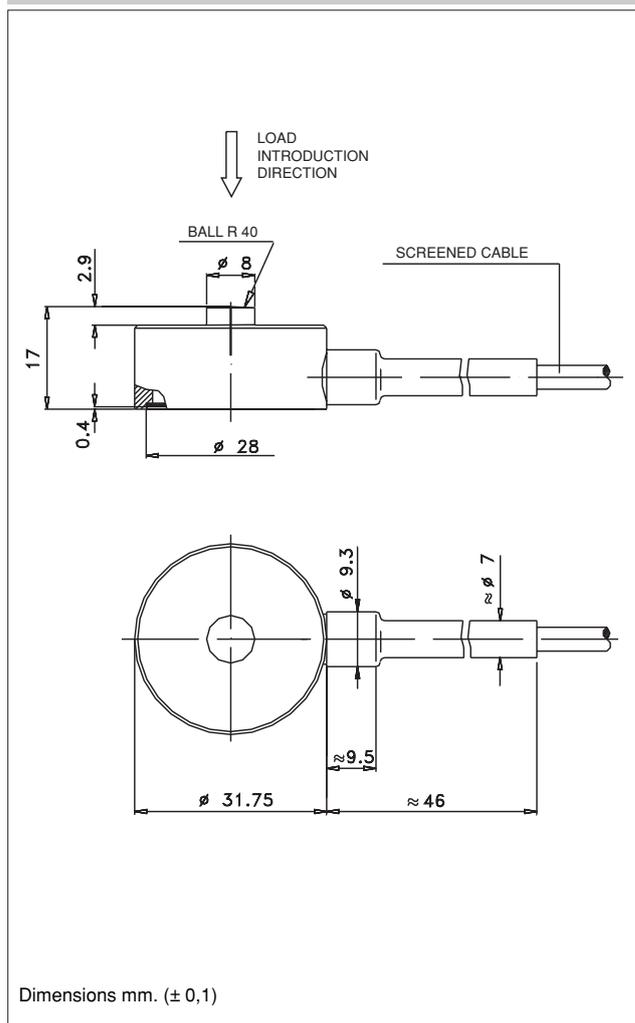
- Range of measurement: from 5 to 20 kN
- Accuracy class: 1%
- All stainless steel construction
- Corrosion resistant
- Grade of protection: IP65 (DIN 40050)
- Small size

The AM force transducers series have been designed to measure static and dynamic compression forces. They are particularly suitable for monitoring pounding operations in compression which require a rugged transducer, insensitive to high resonance frequencies caused by non-homogeneous loads in dynamic sequences. The accuracy and the stability are not affected by continuous cycling under harsh conditions even with dynamic loads. The small size of the AM force transducers makes them ideal for retrofitting in existing equipment.

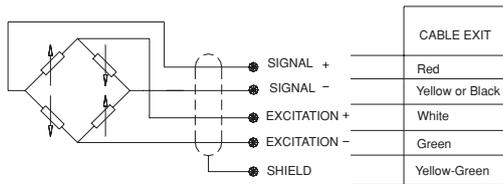
TECHNICAL DATA

| | |
|---|---|
| Accuracy | 1% |
| Nominal full scale load (Ln) | 5...20 kN |
| Nominal output at FSO | 2mV/V |
| Output tolerance at Ln | <± 5% FSO |
| Combined errors: Non linearity Hysteresis, Repeatability | < ± 1% FSO |
| Creep (after 30 min. at Ln) | < ± 0,2% FSO |
| Zero load out of balance signal | < ± 1% FSO |
| Thermal drift in compensated range | Sensitivity Zero Calibration < ± 0,02% FSO°C < ± 0,04% FSO°C - |
| Nominal bridge resistance | 350 Ohm |
| Isolation resistance | > 10 GOhm |
| Nominal supply voltage | 10 V |
| Maximum supply voltage | 15 V |
| Compensated temperature range | -20...+50°C |
| Maximum temperature range | -20...+60°C |
| Storage temperature range | -30...+80°C |
| Permitted static load | 130% Ln |
| Permitted dynamic load | 100% Ln |
| Maximum applicable load | 150% Ln |
| Rupture load | > 300% Ln |
| Maximum static lateral load | 40% Ln |
| Maximum elastic deformation at Ln | < 0,2 mm |
| Grade of protection (DIN40050) | IP65 |
| Electr. connections screened cable | 4x0,15 / 2 m. |
| Elastic element material | Stainless steel |

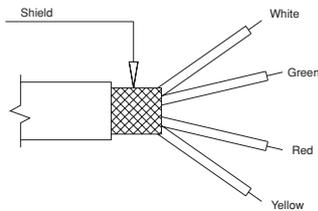
MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS

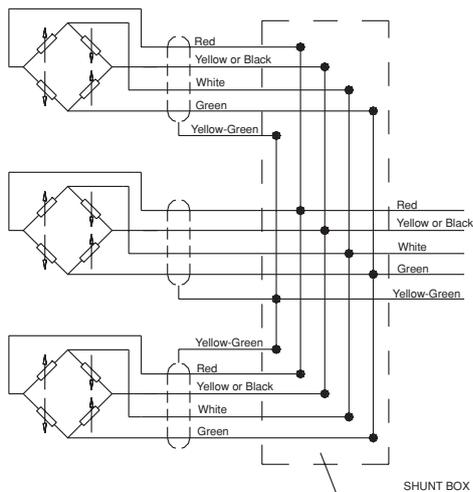


**4x0.25
Screened cable**



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

Cells connected in parallel



In systems that use several cells, the parallel connection automatically sums the loads on each individual cell.

Using this method of measurement, the maximum load will be the sum of the loads on the individual cells and the sensitivity will be the average value of these cells. It is important that the user ensures that no cell is stressed beyond its maximum rating under any load condition.

CONVERSION TABLE

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

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



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cod. 84705 -08/01

OPTIONAL ACCESSORIES

ORDER CODE

Force transducer **AM**

| MEASUREMENT RANGE (kN) | |
|------------------------|------|
| 0 - 5 | KN5U |
| 0 - 10 | KN1D |
| 0 - 20 | KN2D |

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

Ex.: AM - KN5U

AM force transducer with range of measurement 0 - 5 kN.