

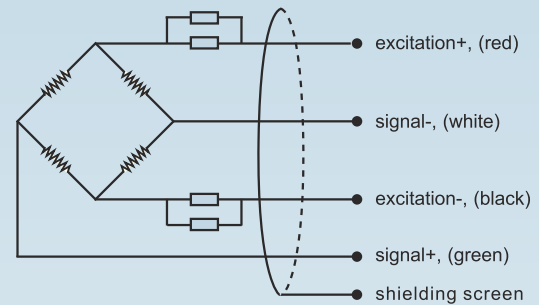
Model 1191 Miniature Compression Load Cells

Based on BCM advanced strain gauge technology, model 1191 miniature load cells are specially designed for application in a space limited area where the compression force has to be measured. The miniature dimensions allow the 1191 (made from stainless steel) load cells to be easily installed in a measurement system.

The 1191 load cells possess 1%fso (or 0.5%fso on request) measuring accuracy and can be used to measure the compression forces ranging from 0.1 to 20 kN. Thanks to BCM's leading technology in sealing, these 1191 load cells are made to a higher protection grade IP66 (standard) or IP67 (option), and fit to harsh industrial conditions.

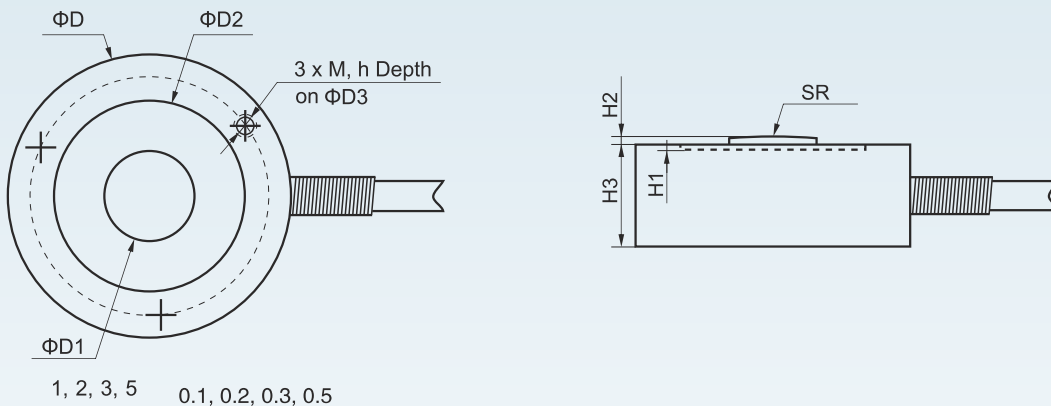


Electrical connection:



- **capacity:** compression load cells
- **material:** stainless steel
- **protection:** IP 66 (standard), IP 67 (on request)
- **application:** compression force measurement

Dimensions:



| force range (kN) | D1 | D2 | D3 | D | M | h | H1 | H2 | H3 | SR |
|-------------------------|-----|------|----|------|------|------|-----|-----|-----|------|
| 0.1, 0.2, 0.3, 0.5, 0.7 | 2.8 | 15 | 18 | 25 | M2.5 | thru | 0.5 | 1.3 | 7.7 | SR40 |
| 1, 2, 3, 5, 7 | 8 | 18.5 | 24 | 31.3 | M2.5 | 6 | 0.5 | 1.3 | 8.5 | SR50 |
| 10, 20 | 12 | 25.4 | 32 | 37.7 | M3 | 8 | 0.7 | 1.7 | 14 | SR60 |

Model 1191

Miniature Compression Load Cells



Specifications:

| | | |
|---------------------------------|--------------|--|
| capacity | kN | 0.1, 0.2, 0.3, 0.5, 0.75, 1, 2, 3, 5, 7.5, 10, 20 |
| safe overload | %FS | 120 |
| ultimate overload | %FS | 150 |
| output sensitivity | mV/V | 1 ± 0.1 (cap.: 0.1 kN), 1.5 ± 0.1 (cap. > 0.1 kN) |
| combined error | %FSO | ± 0.5, 1 (standard) |
| non-linearity | %FSO | ± 1 |
| hysteresis | %FSO | ± 1 |
| repeatability | %FSO | ± 0.2 |
| creep | %FSO/30 min. | ± 0.5 |
| zero unbalance | %FSO | ± 2 (standard), ± 1 |
| excitation voltage | Vdc | 10 |
| maximum excitation | Vdc | 15 |
| input resistance | Ω | 1000 ± 100 (standard), 410 ± 100 |
| output resistance | Ω | 1000 ± 30 (standard), 350 ± 10 |
| insulation resistance | MΩ | ≥ 5000 @ 50 Vdc |
| operating temperature range | °C | - 20 ~ + 65 |
| compensated temperature range | °C | - 10 ~ + 40 |
| temperature coefficient of SPAN | %FSO/°C | ± 0.02 |
| temperature coefficient of ZERO | %FSO/°C | ± 0.01 |
| electrical interface | cable | 4-core shielded PVC cable cable dia.: Φ 3.5 mm; cable length: 1.5 m |

The listed specifications are subject to change without prior notice.

How to order: model-capacity-output-accuracy-zero unbalance-bridge resistance
-IP rating-cable specifications-customized requests (if any)

ordering code example: 1191-2kN-1.5mV/V-1%fso-2%fso-1000 Ω-IP 66-PVC cable, 1.5 m



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