

damper bump stop loadcell

The BERU f1systems Damper Bump Stop Loadcell is designed to accurately measure the individual bump stop forces on each damper of the car. It allows the bump stop rubbers to be accurately analysed and characteristics obtained during 7 post rig and on track testing. Hardened and ground washers are supplied to evenly distribute the bump stops contact patch over the loading face of the loadcell to improve repeatability.

This part offers previously unseen levels of accuracy for damper bump stop measurement throughout the whole temperature range.



We have various geometrical and force range variations. If one of our current parts does not fit your requirements then we can easily adapt the design and produce a specific design for your damper.

Depending on the overall height of the loadcell required, we are able to fit our High Precision amplifier within the part, or for low height loadcells we can supply our In-line Amplifier.

This part accompanies our other specific force measurement products. Our Spring Top Hat, Damper Force, Tie Rod, and Panhard Bar loadcells have been used for several years by a number of teams with excellent results. We are continually expanding our product range, if there is any area of force measurement that cannot currently be measured, please contact us and we will be pleased to take a look for you.

We are happy to design variants of any of our products to meet your specific requirements, please contact us for more information.

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Specification

Electrical

- Force range, from 4000lb to 8000lb (current ranges, others available on request)
- Recommended supply voltage 10 Volt
- Hysteresis <0.5%FSO
- Repeatability <0.5%FSO
- Thermal zero shift over compensated range 0.1% FSO
- Thermal sensitivity shift over compensated range 0.2% FSO

Environmental

- Compensated temperature range 50°F to 260°F
- Operating temperature range 10°F to 270°F
- Sealed to IP65



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