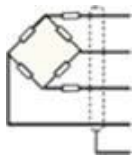
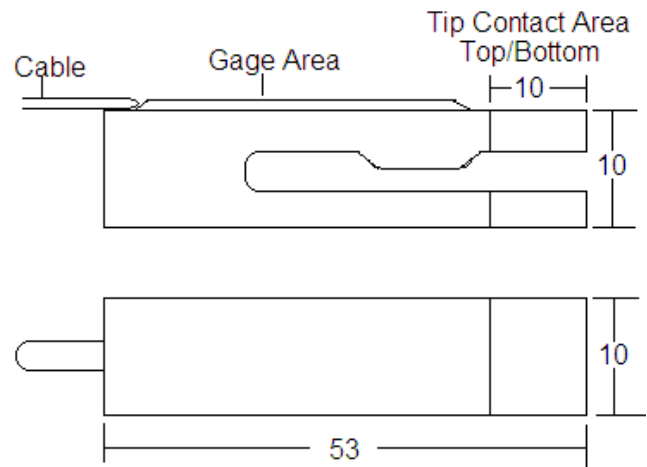
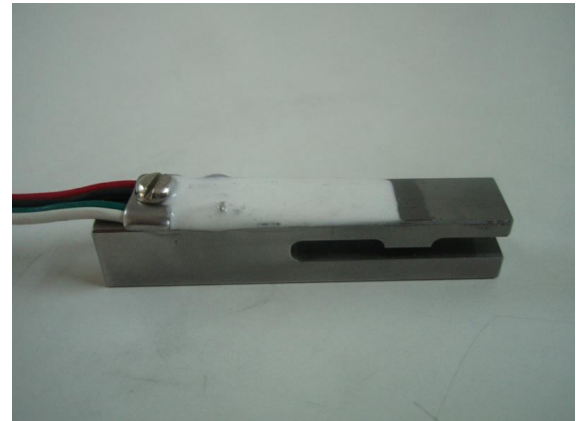


Description

DFS is Strain gage based force sensor. It is specially designed for force measurement of Dental bit in dentistry. It also can be used to measure force between two jaws, vise in engineering, automation & assembly lines. It is constructed from SS for hygienic applications.

| Features | | | | | | | | | | | |
|---|---|---------------|-----|----------------|-------|---------------|-------|----------------|-------|---------------|--|
| <ul style="list-style-type: none"> ❖ Available in capacity of 0 to 50 Kgf range. ❖ Stainless Steel 17-4 PH construction. ❖ Can be customized as per customers requirement. | | | | | | | | | | | |
| Applications | | | | | | | | | | | |
| <ul style="list-style-type: none"> ❖ Dental Force in Dentistry. ❖ Vise Force in Engineering. ❖ Compression force in assembly line. | | | | | | | | | | | |
| Performance Specification | | | | | | | | | | | |
| Standard Capacity | 50 Kgf | | | | | | | | | | |
| Excitation Voltage | 10 VDC- Maximum 15 VDC | | | | | | | | | | |
| Nominal Output | 1.0 m V/ V | | | | | | | | | | |
| Non - Linearity | < ±0.5% FSO (Full Scale Output) | | | | | | | | | | |
| Hysteresis | < ±0.15% FSO | | | | | | | | | | |
| Non-Repeatability | < ±0.1% FSO | | | | | | | | | | |
| Creep (30 minutes) | < ±0.02% FSO | | | | | | | | | | |
| Zero Balance | ±1.0% FSO | | | | | | | | | | |
| Input Resistance | 390 ± 15 Ohms | | | | | | | | | | |
| Output Resistance | 350 ± 5 Ohms | | | | | | | | | | |
| Insulation Resistance (50 VDC) | > 1000 Mega Ohms | | | | | | | | | | |
| Cable Length (4 Core Screened) | 1 Meter | | | | | | | | | | |
| Safe Overload of Rated Capacity | 150% | | | | | | | | | | |
| Ultimate Overload of Rated Capacity | 250% | | | | | | | | | | |
| Temp. Compensated Range | 0-60 °C | | | | | | | | | | |
| Temperature Effect on Output | < 0.005% FSO/ °C | | | | | | | | | | |
| Temperature Effect on Zero | < 0.005% FSO/ °C | | | | | | | | | | |
| Deflection | < 0.4 mm at FSO | | | | | | | | | | |
| Finish & Construction | Stainless Steel 17-4 ph material | | | | | | | | | | |
| Environmental Protection Class | Meets IP 65 | | | | | | | | | | |
| Electrical Termination | | | | | | | | | | | |
|  | <table border="1"> <tr> <td>+Input</td> <td>Red</td> </tr> <tr> <td>+Output</td> <td>Green</td> </tr> <tr> <td>-Input</td> <td>Black</td> </tr> <tr> <td>-Output</td> <td>White</td> </tr> <tr> <td colspan="2">Shield</td> </tr> </table> | +Input | Red | +Output | Green | -Input | Black | -Output | White | Shield | |
| +Input | Red | | | | | | | | | | |
| +Output | Green | | | | | | | | | | |
| -Input | Black | | | | | | | | | | |
| -Output | White | | | | | | | | | | |
| Shield | | | | | | | | | | | |



All Dimensions are in mm

Specifications are subject to change without notice

Manufactured by:



ADI ARTECH
TRANSDUCERS PVT. LTD.

A Joint venture with
ARTECH INDUSTRIES INC., U.S.A

917/1, G.I.D.C. Estate, Makarpura Vadodara - 390 010. Gujarat, INDIA

Ph : +91-265-2655083, 2651023

Fax : +91-265-2638751

M : +91-9374068998, 9327425560

Email : sales@adiartech.com, adiartech@adiartech.com

Website: www.adiartech.com