

Description.

CE Certified 70510-SP is Shackle Pin Load Cell specially designed for industrial material handling applications. Pin Load cell replaces the shackle pin and acts as load cell in association with shackle with anti-rotational bracket.

This can be supplied in 4 wire usual mv signal design, 4-20ma loop powered mode or with Radio telemetry signals.

Features

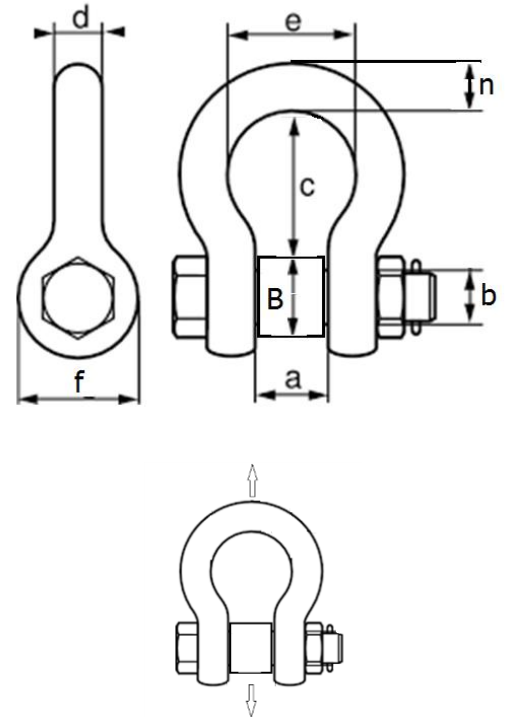
| | |
|---|---|
| CE Rated | Tool steel / SS 17-4 PH construction |
| 0-1.5 to 0-400Tf Capacities | |
| Low profile for Tensile & Compression force | Complete environmental protection IP 65 class |
| Can be customized with dimensions | |

Applications

| | |
|-----------------------|------------------------|
| Crane weighing | Rope tension monitor |
| Material handling | Ship bollard pull test |
| Pulling force measure | Over load monitor |

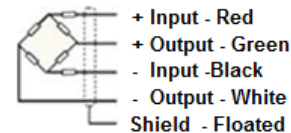
Performance Specification

| | |
|-------------------------------------|--|
| Standard Capacities | 1.5, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150Tf. |
| Excitation Voltage | 10 VDC- Maximum 15 VDC |
| Nominal Output | 1.0 m V/ V |
| Non - Linearity | < ±0.75% FSO (Full Scale Output)- 10% to 100% range |
| Hysteresis | < ±0.15% FSO |
| Non-Repeatability | < ±0.1% FSO |
| Creep (30 minutes) | < ±0.04% FSO |
| Zero Balance | ±1.0% FSO |
| Input Resistance | Up to 5Tf. 370 ± 10 Ohms Above 5Tf. 770 ± 20 Ohms |
| Output Resistance | Up to 5Tf. 350 ± 5 Ohms Above 5Tf. 700 ± 20 Ohms |
| Insulation Resistance (50 VDC) | > 1000 Mega Ohms |
| Cable Length(4 core screened) | 5 Meters |
| Safe Overload of Rated Capacity | 150% |
| Ultimate Overload of Rated Capacity | 200% |
| Temp. Compensated Range | 10-50°C |
| Temperature Effect on Output | < 0.05% FSO/ °C |
| Temperature Effect on Zero | < 0.05% FSO/ °C |
| Deflection | < 0.4 mm at FSO |
| Environmental Protection Class | Meets IP65 |



Electrical Termination

Options



- * Compatible Instruments with Relay output, 4-20 mA or 0-2 Volt Output
- * Digital Version with RS-485 interface / USB output /Blue Tooth Telemetry / Wireless Telemetry
- * Software for Graphic, Tabulation, Reporting & Analysis

| Capacity - Tf | a | b | B-Bobbin | c | d | e | f | n | Self-Weight-g.(appx.) | Shackle Size |
|---------------|-----|-----|----------|-----|-----|-----|-----|-----|-----------------------|--------------|
| 1.5 | 32 | 22 | 31 | 68 | 19 | 51 | 46 | 20 | 3.0 | 3 / 4 |
| 3 | 36 | 25 | 38 | 84 | 22 | 58 | 53 | 24 | 5.0 | 7/8 |
| 5, 7.5 | 51 | 35 | 45 | 114 | 32 | 82 | 76 | 35 | 8.0 | 1-1/4 |
| 10, 15 | 73 | 51 | 65 | 171 | 44 | 127 | 106 | 57 | 16 | 1-3/4 |
| 20, 30 | 105 | 70 | 88 | 258 | 66 | 184 | 145 | 79 | 45 | 2-1/2 |
| 50 | 127 | 82 | 103 | 320 | 76 | 200 | 165 | 92 | 85 | 3 |
| 75 | 133 | 95 | 118 | 361 | 92 | 229 | 203 | 105 | 130 | 3-1/2 |
| 100, 150 | 140 | 108 | 132 | 356 | 104 | 254 | 229 | 116 | 160 | 4 |

Specification are subject to change.

All dimensions are in mm.

Shackle dimensions may vary.

| | | |
|--|---|---|
| | <p>Made in INDIA by:</p> <p>ADI ARTECH</p> <p>TRANSDUCERS PVT. LTD.</p> <p>(An ISO 9001:2015 Certified Company)</p> | <p>917/1, G.I.D.C. Estate, Makarpura, Vadodara - 390 010, Gujarat, INDIA</p> <p>Mobile : +91-9374068998, 9879444551, 9054467370</p> <p>Email : sales@adiartech.com, adiartech@adiartech.com</p> <p>Website : www.adiartech.com</p> |
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