



2782 Series Tension and Compression Load Cells



Part No. 2782-10DAN-0.1-B

Features

- Constructed from aircraft-grade, anodized aluminum alloy
- Can measure tension or compression with built-in overload protection
- Capacities from 10 kg to 300 kg (22 lb to 660 lb) at 0.1% accuracy of full scale
- 3-wire 4-20 mA output
- Compact design for mounting in tight spaces
- Well suited to force measurement, suspended hoppers, and conveyor belt applications



2782 Series Tension and Compression Load Cell Selection

Part Number	Load Rating	Operating Voltage	Current Signal Range	Material	IP Rating	Electrical Connection	Pcs/Pkg	Wt (lb)	Price	Drawing Links
2782-10DAN-0.1-B	22 lb / 10 kg	12-30 VDC	4-20 mA	Anodized Aluminum	IP54	6.5ft / 2m integral 3-wire shielded cable	1	1.08	\$565.00	PDF
2782-30DAN-0.1-B	66 lb / 30 kg						1	1.03	\$565.00	PDF
2782-50DAN-0.1-B	110 lb / 50 kg						1	1.05	\$565.00	PDF
2782-100DAN-0.1-B	220 lb / 100 kg						1	1.04	\$565.00	PDF
2782-150DAN-0.1-B	330 lb / 150 kg						1	1.08	\$565.00	PDF
2782-200DAN-0.1-B	440 lb / 200 kg						1	1.10	\$565.00	PDF
2782-300DAN-0.1-B	660 lb / 300 kg						1	1.08	\$565.00	PDF

2782 Series Tension and Compression Load Cell Technical Specifications

Accuracy Class	0.1 %** Full Scale	Temperature Coefficient of the Sensitivity	<± 0.05 %* / 10 °C [50 °F]
Combined Error (Non-Linearity + Hysteresis)	<± 0.1 %*	Temperature Coefficient of Zero Signal	<± 0.035 %* / 10 °C [50 °F]
Repeatability Error	<± 0.03 %*	Insulation Resistance (50V)	> 5000 MΩ
Creep Error Over 30 Min.	<± 0.06 %*	Safe Load Limit	120%*
Reference Temperature	23 °C [73.4 °F]	Breaking Load	> 300%*
Compensated Temperature Range	-10 to 45 °C [14 to 113 °F]	Permissible Dynamic Loading	50%*
Service Temperature Range	-30 to 70 °C [-22 to 158 °F]	Static Lateral Force Limit	50%*
Storage Temperature Range	-50 to 85 °C [-58 to 185 °F]	Mounting Hole Size	22-220 lb - (2) M8-1.25 threaded 330-660 lb (2) M12-1.75 threaded

* Full Scale

** Except thermal Drifts

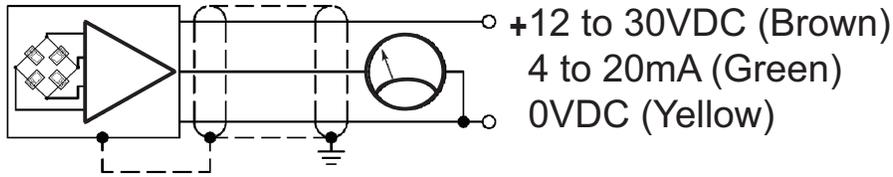
2782 Series Tension and Compression Load Cell Analog Output

Part Number	Capacity	4-12 mA	12-20 mA
2782-10DAN-0.1-B	22 lb / 10 kg	-22 to 0 lb / -10 to 0 kg	0 to 22 lb / 0 to 10 kg
2782-30DAN-0.1-B	66 lb / 30 kg	-66 to 0 lb / -30 to 0 kg	0 to 66 lb / 0 to 30 kg
2782-50DAN-0.1-B	110 lb / 50 kg	-110 to 0 lb / -50 to 0 kg	0 to 110 lb / 0 to 50 kg
2782-100DAN-0.1-B	220 lb / 100 kg	-220 to 0 lb / -100 to 0 kg	0 to 220 lb / 0 to 100 kg
2782-150DAN-0.1-B	330 lb / 150 kg	-330 to 0 lb / -150 to 0 kg	0 to 330 lb / 0 to 150 kg
2782-200DAN-0.1-B	440 lb / 200 kg	-440 to 0 lb / -200 to 0 kg	0 to 440 lb / 0 to 200 kg
2782-300DAN-0.1-B	660 lb / 300 kg	-660 to 0 lb / -300 to 0 kg	0 to 660 lb / 0 to 300 kg



2782 Series Tension and Compression Load Cells

Wiring



Cable shield connected to transducer

Load Direction

