

## INTERFACE LOAD PIN CHEAT SHEET

### COMMON ABBREVIATIONS

pound-force	lbf	Volt (Direct Current)	VDC
kilopound-force	K lbf	Millivolt per Volt	mV/V
Newton	N	Full Scale	FS
kilonewton	kN	Ohm	$\Omega$
gram-force	gf	Megohm	M $\Omega$
kilogram-force	kgf	Milliampere	mA
kilogram	kg	Rated Output	RO
hertz	Hz	Degree Fahrenheit	$^{\circ}$ F
kilohertz	kHz	Degree Celsius	$^{\circ}$ C

### ACCURACY

<b>Nonlinearity</b>	The deviation from a perfectly straight calibration curve, expressed as a percentage of full scale
<b>Nonrepeatability</b>	The variation in output when the same load is applied repeatedly under identical conditions, expressed as a percentage of rated output

### TEMPERATURE PERFORMANCE

<b>Compensated Range</b>	The range of ambient temperatures over which the load cell is guaranteed to maintain its specified accuracy
<b>Operating Range</b>	The full range of ambient temperatures over which the load cell can safely function without physical or electrical damage
<b>Zero Temperature Coefficient</b>	How much the zero output, the output signal when no load is applied, changes with temperature
<b>Span Temperature Coefficient</b>	Describes how the sensitivity or output signal changes as temperature varies, while under load

- Hazardous Area ATEX / IECEx protection available
- Grab Bracket - A mounting and retention feature that helps securely locate the load pin in its mating structure and prevent it from rotating or walking out under load.
- Keeper Plate - A flat retaining plate that bolts to the structure and overlaps part of the load pin, physically preventing the pin from sliding out of its bore once installed. Option of 1 to 4 keeper plates.
- Cable Exit - Axial or Radial options available

### ELECTRICAL

<b>Rated Output</b>	Signal level at full load
<b>Excitation Voltage</b>	Max power supply allowed
<b>Bridge Resistance</b>	Resistance across the sensor circuit
<b>Insulation Resistance</b>	The DC resistance measured between the bridge circuit and the case
<b>Toggle/Zero Float</b>	The shift in zero balance resulting from a complete cycle of equal tension and compression loads

### MECHANICAL

<b>Safe Overload</b>	Max load it can handle without damage
<b>Ultimate Overload</b>	The maximum load the pin can withstand before permanent structural failure (fracture or catastrophic yielding)
<b>Environmental Rating</b>	An IP (Ingress Protection) rating defines how effectively an electrical enclosure seals against solids (dust) and liquids (water), classified under international standard
<b>Weight</b>	How much the load cell itself weighs
<b>Dimensions</b>	Physical size details
<b>Calibration</b>	Verified output under known loads
<b>Material</b>	What the load cell is made of

### CALIBRATION

<b>System Calibration</b>	Verifies the performance of the load cell and entire system, ensuring accuracy and reliable performance
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### AVAILABLE OPTIONS

<b>Adapters (M/F)</b>	Threaded adapters to match mounting requirements
<b>Cables</b>	Various lengths, gauges, and configurations available
<b>Connectors</b>	Type of electrical interface or connection method