

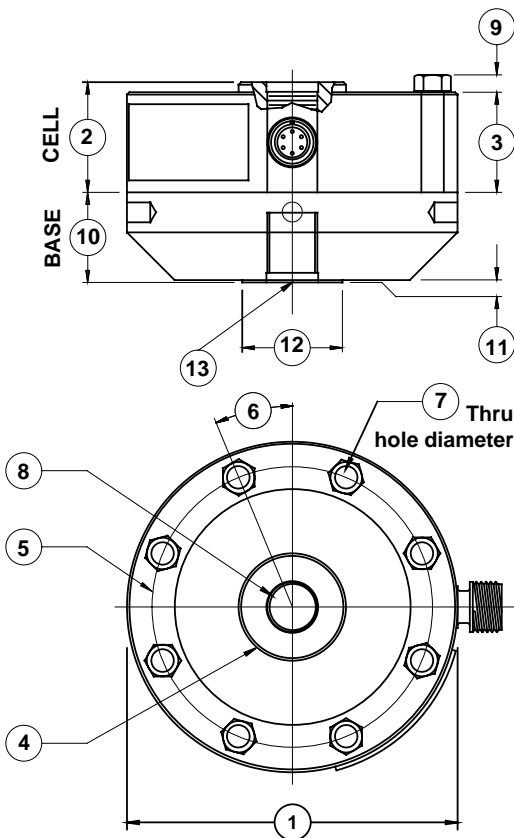
## Model 1000 Fatigue Rated Series Universal (U.S. & Metric)

Why INTERFACE 1000 series load cells are the best in class:

- Proprietary Interface temperature compensated strain gages
- 100 million fully reversed cycles
- Accuracy to 0.03%
- Eccentric load compensated
- Low deflection
- .0008%/°F (.0015%/°C) temp effect on output
- Barometric compensation
- Shunt calibration
- Tension and compression



### DIMENSIONS



See Drawing	MODEL							
	1010		1020		1032		1040	
	CAPACITY							
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	250, 500, 1K, 2.5K, 5K	1.25, 2.5, 5, 12.5, 25	12.5K, 25K	50, 125	50K	225	100K	450
	inch	mm	inch	mm	inch	mm	inch	mm
①	4.13	104.8	6.06	153.9	8.00	203.2	11.0	279
②	1.38	34.9	1.75	44.5	2.50	63.5	3.50	88.9
③	1.25	31.7	1.63	41.4	2.25	67.2	3.00	76.2
④	1.34	34.0	2.65	67.3	3.76	95.2	4.81	122.2
⑤	3.50	88.9	5.13	130.3	130.3	165.1	900	229
⑥	22.5°	22.5°	15.0°	15.0°	11.25°	11.25°	11.25°	11.25°
⑦	0.28	7.10	0.41	10.4	0.53	13.5	0.65	16.8
	8 places		12 places		16 places		16 places	
⑧	5/8-18 UNF-3B	M-16 X 2-4H	1 1/4-12 UNF-3B	M33 X 2-4H	1 3/4-12 UNF-3B	M42 X 2-4H	2 3/4-8 UNF-3B	M72 X 2-4H
	1.12 in. deep	28.4 mm deep	1.40 in. deep	35.6 mm deep	2.15 in. deep	54.6 mm deep	3.25 in. deep	82.6 mm deep
⑨	0.20	5.10	0.30	7.60	0.40	10.2	0.50	12.7
⑩	1.13	28.6	1.75	44.5	2.00	50.8	3.00	76.2
⑪	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80
⑫	1.25	31.8	2.25	57.2	3.00	76.2	4.50	114
⑬	5/8-18 UNF-3B	M-16 X 2-4H	1 1/4-12 UNF-3B	M33 X 2-4H	1 3/4-12 UNF-3B	M42 X 2-4H	2 3/4-8 UNF-3B	M72 X 2-4H
	.87 in. deep	22.1 mm deep	1.40 in. deep	35.6 mm deep	1.75 in. deep	44.5 mm deep	2.75 in. deep	69.8 mm deep

## SPECIFICATIONS

PARAMETERS	MODEL				
	1010	1010	1020	1032	1040
	CAPACITY				
U.S. Models (lbf)	250, 500, 1K	2.5K, 5K	12.5K, 25K	50K	100K
Metric Models (kN)	1.25, 2.5, 5	12.5, 25	50, 125	225	450
<b>ACCURACY – (MAX ERROR)</b>					
Static Error Band-% FS	± 0.03	± 0.04	± 0.05	± 0.05	± 0.06
Nonlinearity-% FS	± 0.04	± 0.04	± 0.05	± 0.05	± 0.06
Hysteresis-% FS	± 0.03	± 0.04	± 0.05	± 0.05	± 0.06
Nonrepeatability-% RO	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02
Creep, in 20 min-%	± 0.025	± 0.025	± 0.025	± 0.025	± 0.025
Side Load Sensitivity-%	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
Eccentric Load Sensitivity-%/in	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
<b>TEMPERATURE</b>					
Compensated Range-°F	15 to 115	15 to 115	15 to 115	15 to 115	15 to 115
Compensated Range-°C	-10 to 45	-10 to 45	-10 to 45	-10 to 45	-10 to 45
Operating Range-°F	-65 to 200	-65 to 200	-65 to 200	-65 to 200	-65 to 200
Operating Range-°C	-55 to 90	-55 to 90	-55 to 90	-55 to 90	-55 to 90
Effect on Zero-%RO/°F – MAX	± 0.0008	± 0.0008	± 0.0008	± 0.0008	± 0.0008
Effect on Zero-%RO/°C – MAX	± 0.0015	± 0.0015	± 0.0015	± 0.0015	± 0.0015
Effect on Output-%/°F – MAX	± 0.0008	± 0.0008	± 0.0008	± 0.0008	± 0.0008
Effect on Output-%/°C – MAX	± 0.0015	± 0.0015	± 0.0015	± 0.0015	± 0.0015
<b>ELECTRICAL</b>					
Rated Output-mV/V (Nominal)	1.0	2.0	2.0	2.0	2.0
Excitation Voltage-VDC MAX	20	20	20	20	20
Bridge Resistance-Ohm (Nominal)	350	350	350	350	350
Zero Balance-% RO	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Insulation Resistance-Megohm	5000	5000	5000	5000	5000
<b>MECHANICAL</b>					
Safe Overload-% CAP	± 300	± 300	± 300	± 300	± 300
Deflection @ RO-inch	0.0005	0.001	0.001	0.002	0.003
Deflection @ RO-mm	0.013	0.025	0.025	0.050	0.075
Optional Base-P/N (Metric)	B101 (M)	B102 (M)	B103 (M)	B112 (M)	B105 (M)
Natural Frequency-kHz	5.0, 6.9, 9.8	6.6, 9.4	6.5, 7.0	5.8	4.9
Weight-lb	1.5	3.3	9.5	26	68
Weight-kg	0.7	1.5	4.3	12	31
Connector	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P
Calibration	T & C	T & C	T & C	T & C	T & C

### OPTIONS\*

Base (recommended)  
 Compression Overload Protection  
 Integral 10 ft cable  
 Bayonet Connector  
 Multiple bridge  
 Standardized output  
 Connector Protection

### ACCESSORIES\*

Mating connector  
 Instrumentation  
 Loading hardware

\* See appendix for more technical information

### STANDARD CONFIGURATIONS

- 10 ft Integral Cable (10xxAJ-nn)  
 <or> PC04E-10-6P Connector (10xxAF-nn)
- Installed Base (-B suffix)



Shown with optional base