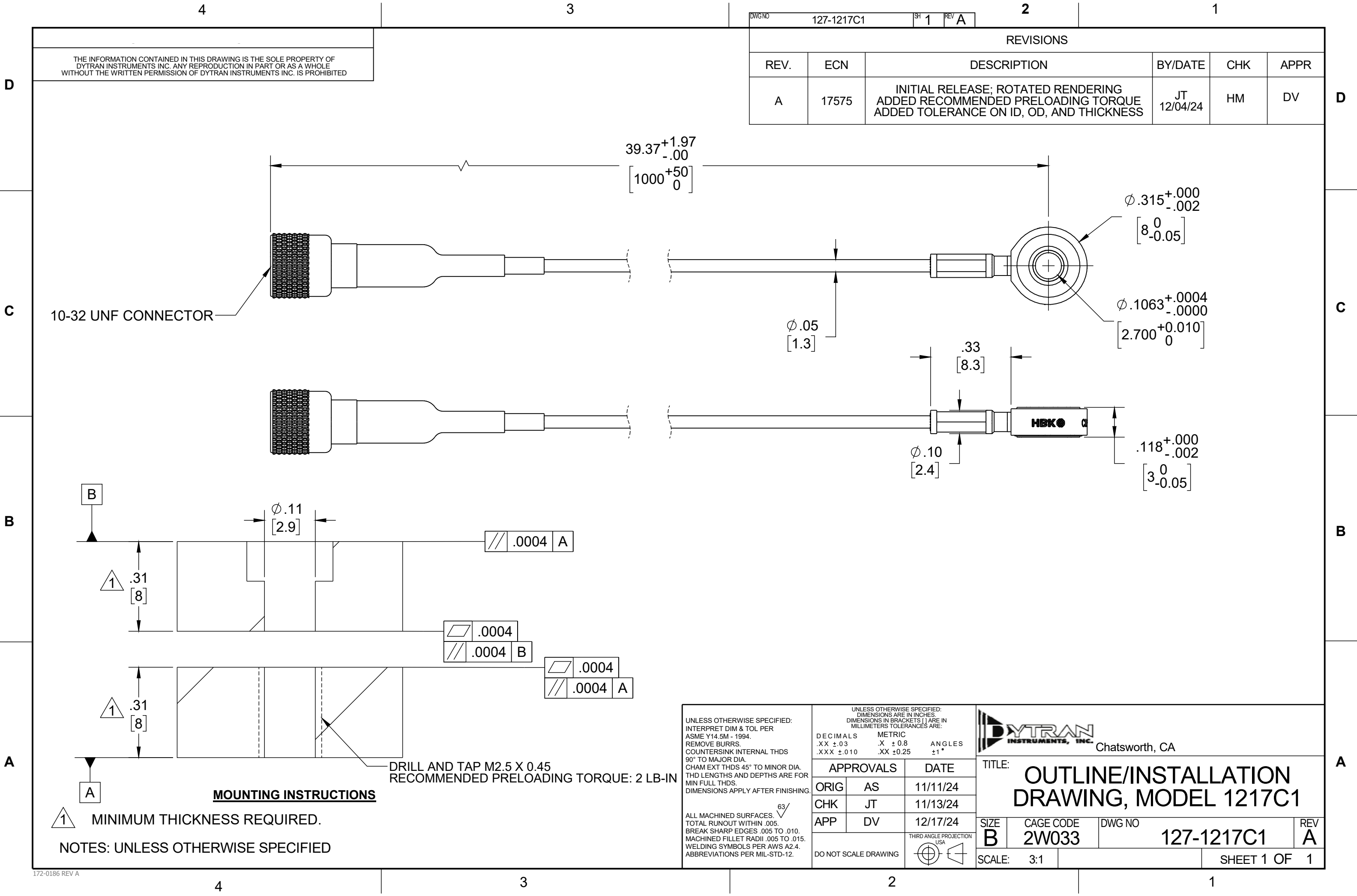




MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.																																																																																																																																				
1217C1						PS1217C1																																																																																																																																				
		RING FORCE TRANSDUCER				REV A, ECN17575, 12/04/24																																																																																																																																				
 PHYSICAL <table><tr><td>Weight, Max (Sensor)</td><td></td><td>ENGLISH</td><td></td><td>SI</td><td></td></tr><tr><td>Housing</td><td>Material</td><td><0.18</td><td>oz</td><td><5</td><td>grams</td></tr><tr><td>Cable</td><td>Length, Nom</td><td>17-4 PH</td><td></td><td>17-4 PH</td><td></td></tr><tr><td></td><td>Jacket</td><td>39.4</td><td>in</td><td>1000</td><td>mm</td></tr><tr><td></td><td>Wire Size</td><td>PTFE</td><td></td><td>PTFE</td><td></td></tr><tr><td>Connector</td><td></td><td>34</td><td>AWG</td><td>34</td><td>AWG</td></tr><tr><td></td><td></td><td>10-32, UNF-2B</td><td></td><td>10-32, UNF-2B</td><td></td></tr></table> PERFORMANCE <table><tr><td>Sensor Measurement Range</td><td></td><td>674</td><td>Lbf</td><td>3</td><td>kN</td></tr><tr><td>Sensor Sensitivity (+/-30%)</td><td></td><td>19</td><td>pC/Lbf</td><td>4.30</td><td>pC/N</td></tr><tr><td>System Linearity [2]</td><td></td><td><±1</td><td>%F.S</td><td><±1</td><td>%F.S</td></tr><tr><td>Insulation Resistance</td><td></td><td>≥1000</td><td>GΩ</td><td>≥1000</td><td>GΩ</td></tr></table> ENVIRONMENTAL <table><tr><td>Preloading force (recommended)</td><td></td><td>135</td><td>Lbf</td><td>0.6</td><td>kN</td></tr><tr><td>Maximum force on the sensor (with preload)</td><td></td><td>809</td><td>Lbf</td><td>4</td><td>kN</td></tr><tr><td>Temperature Range (Operational, Sensor)</td><td></td><td>-4 to 248</td><td>°F</td><td>-20 to 120</td><td>°C</td></tr><tr><td>Temperature coeff. of the sensitivity</td><td></td><td>0.036</td><td>% / °F</td><td>0.02</td><td>% / °C</td></tr><tr><td>Seal</td><td></td><td>IP65</td><td></td><td>IP65</td><td></td></tr></table> This family also includes: <table><tr><th>Model</th><th>Sensitivity (pC/Lbf)</th><th>Range (Lbf)</th><th>Oper. Temp(°F)</th><th>Cable Length (in)</th></tr><tr><td>1217C2</td><td>19</td><td>1574</td><td>-4 to 248</td><td>39.4</td></tr><tr><td>1217C3</td><td>19</td><td>3174</td><td>-4 to 248</td><td>39.4</td></tr><tr><td>1217C4</td><td>19</td><td>5845</td><td>-4 to 248</td><td>39.4</td></tr><tr><td>1217C5</td><td>19</td><td>8094</td><td>-4 to 248</td><td>39.4</td></tr><tr><td>1217C6</td><td>19</td><td>13939</td><td>-4 to 248</td><td>39.4</td></tr><tr><td>1217C7</td><td>19</td><td>17986</td><td>-4 to 248</td><td>39.4</td></tr></table> Please, refer to the performance specifications of the products in this family for detailed description. Supplied Accessories: 1) Accredited Calibration Certificate (ISO 17025) Notes: [1] All specifications are at room temperature unless otherwise specified. [2] Measured using zero-based straight line method, % of F.S. or any lesser range. [3] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. 10-32 UNF CONNECTOR Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1217C1 for more information.								Weight, Max (Sensor)		ENGLISH		SI		Housing	Material	<0.18	oz	<5	grams	Cable	Length, Nom	17-4 PH		17-4 PH			Jacket	39.4	in	1000	mm		Wire Size	PTFE		PTFE		Connector		34	AWG	34	AWG			10-32, UNF-2B		10-32, UNF-2B		Sensor Measurement Range		674	Lbf	3	kN	Sensor Sensitivity (+/-30%)		19	pC/Lbf	4.30	pC/N	System Linearity [2]		<±1	%F.S	<±1	%F.S	Insulation Resistance		≥1000	GΩ	≥1000	GΩ	Preloading force (recommended)		135	Lbf	0.6	kN	Maximum force on the sensor (with preload)		809	Lbf	4	kN	Temperature Range (Operational, Sensor)		-4 to 248	°F	-20 to 120	°C	Temperature coeff. of the sensitivity		0.036	% / °F	0.02	% / °C	Seal		IP65		IP65		Model	Sensitivity (pC/Lbf)	Range (Lbf)	Oper. Temp(°F)	Cable Length (in)	1217C2	19	1574	-4 to 248	39.4	1217C3	19	3174	-4 to 248	39.4	1217C4	19	5845	-4 to 248	39.4	1217C5	19	8094	-4 to 248	39.4	1217C6	19	13939	-4 to 248	39.4	1217C7	19	17986	-4 to 248	39.4
Weight, Max (Sensor)		ENGLISH		SI																																																																																																																																						
Housing	Material	<0.18	oz	<5	grams																																																																																																																																					
Cable	Length, Nom	17-4 PH		17-4 PH																																																																																																																																						
	Jacket	39.4	in	1000	mm																																																																																																																																					
	Wire Size	PTFE		PTFE																																																																																																																																						
Connector		34	AWG	34	AWG																																																																																																																																					
		10-32, UNF-2B		10-32, UNF-2B																																																																																																																																						
Sensor Measurement Range		674	Lbf	3	kN																																																																																																																																					
Sensor Sensitivity (+/-30%)		19	pC/Lbf	4.30	pC/N																																																																																																																																					
System Linearity [2]		<±1	%F.S	<±1	%F.S																																																																																																																																					
Insulation Resistance		≥1000	GΩ	≥1000	GΩ																																																																																																																																					
Preloading force (recommended)		135	Lbf	0.6	kN																																																																																																																																					
Maximum force on the sensor (with preload)		809	Lbf	4	kN																																																																																																																																					
Temperature Range (Operational, Sensor)		-4 to 248	°F	-20 to 120	°C																																																																																																																																					
Temperature coeff. of the sensitivity		0.036	% / °F	0.02	% / °C																																																																																																																																					
Seal		IP65		IP65																																																																																																																																						
Model	Sensitivity (pC/Lbf)	Range (Lbf)	Oper. Temp(°F)	Cable Length (in)																																																																																																																																						
1217C2	19	1574	-4 to 248	39.4																																																																																																																																						
1217C3	19	3174	-4 to 248	39.4																																																																																																																																						
1217C4	19	5845	-4 to 248	39.4																																																																																																																																						
1217C5	19	8094	-4 to 248	39.4																																																																																																																																						
1217C6	19	13939	-4 to 248	39.4																																																																																																																																						
1217C7	19	17986	-4 to 248	39.4																																																																																																																																						

HBK



HOTTINGER
BRÜEL & KJÆR

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com For permission to reprint this content, please contact info@dytran.com