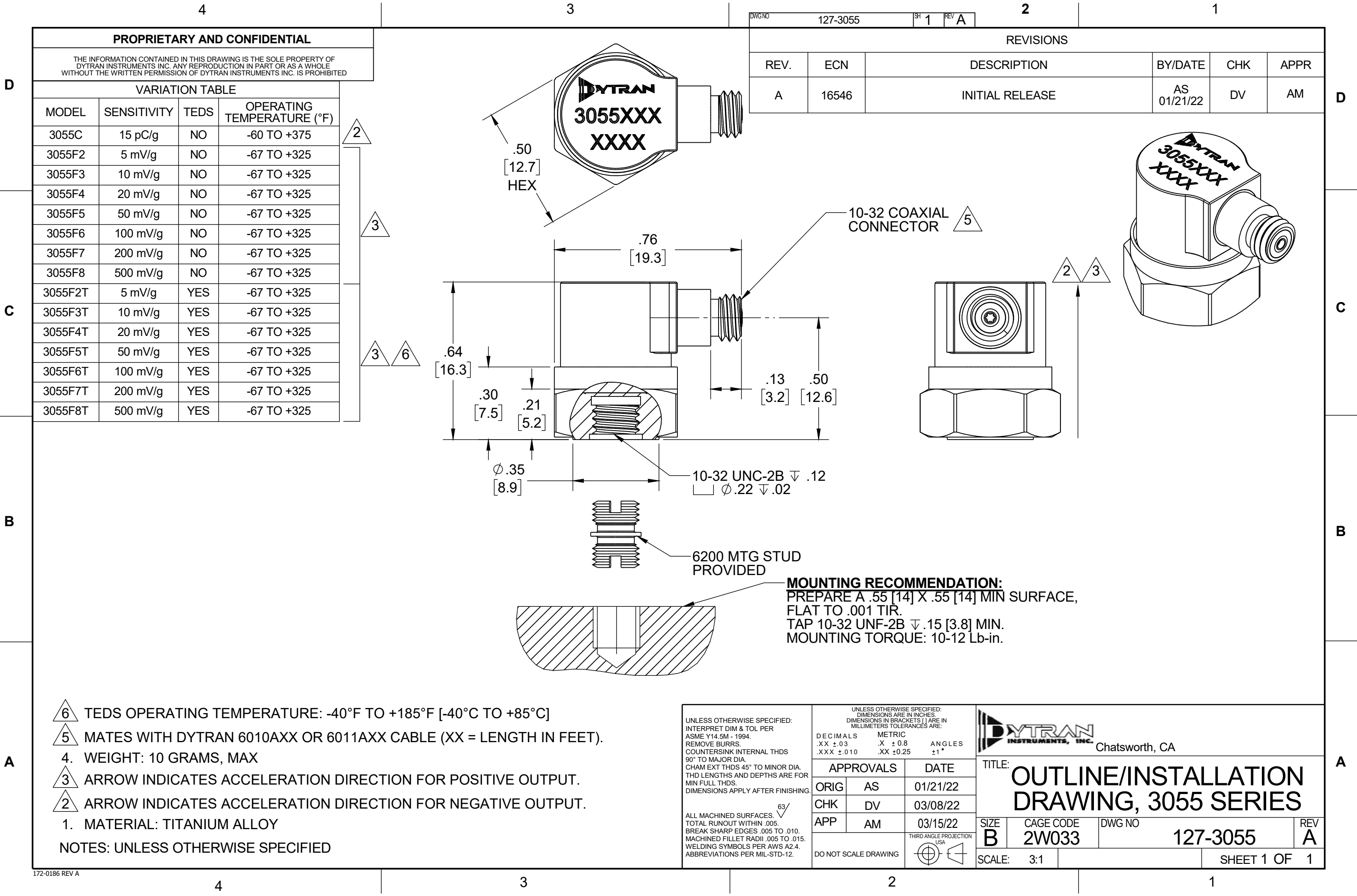




PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

VARIATION TABLE			
MODEL	SENSITIVITY	TEDS	OPERATING TEMPERATURE (°F)
3055C	15 pC/g	NO	-60 TO +375
3055F2	5 mV/g	NO	-67 TO +325
3055F3	10 mV/g	NO	-67 TO +325
3055F4	20 mV/g	NO	-67 TO +325
3055F5	50 mV/g	NO	-67 TO +325
3055F6	100 mV/g	NO	-67 TO +325
3055F7	200 mV/g	NO	-67 TO +325
3055F8	500 mV/g	NO	-67 TO +325
3055F2T	5 mV/g	YES	-67 TO +325
3055F3T	10 mV/g	YES	-67 TO +325
3055F4T	20 mV/g	YES	-67 TO +325
3055F5T	50 mV/g	YES	-67 TO +325
3055F6T	100 mV/g	YES	-67 TO +325
3055F7T	200 mV/g	YES	-67 TO +325
3055F8T	500 mV/g	YES	-67 TO +325

REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	16546	INITIAL RELEASE	AS 01/21/22	DV	AM

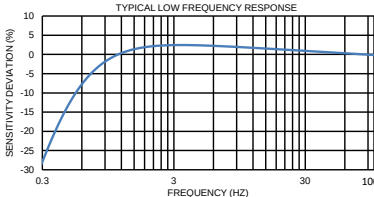
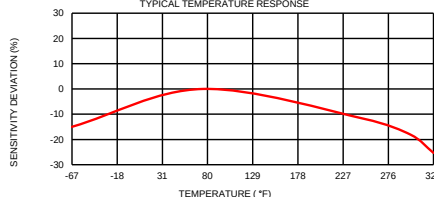
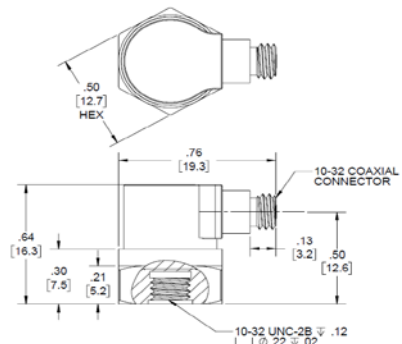
MOUNTING RECOMMENDATION:
PREPARE A .55 [14] X .55 [14] MIN SURFACE,
FLAT TO .001 TIR.
TAP 10-32 UNF-2B ∇ .15 [3.8] MIN.
MOUNTING TORQUE: 10-12 Lb-in.

- 6 TEDS OPERATING TEMPERATURE: -40°F TO +185°F [-40°C TO +85°C]
- 5 MATES WITH DYTRAN 6010AXX OR 6011AXX CABLE (XX = LENGTH IN FEET).
4. WEIGHT: 10 GRAMS, MAX
- 3 ARROW INDICATES ACCELERATION DIRECTION FOR POSITIVE OUTPUT.
- 2 ARROW INDICATES ACCELERATION DIRECTION FOR NEGATIVE OUTPUT.

1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: <table><tr><th>DECIMALS</th><th>METRIC</th><th>ANGLES</th></tr><tr><td>.XX ±.03</td><td>.X ±.8</td><td>±1°</td></tr><tr><td>.XXX ±.010</td><td>.XX ±0.25</td><td></td></tr></table>		DECIMALS	METRIC	ANGLES	.XX ±.03	.X ±.8	±1°	.XXX ±.010	.XX ±0.25		DYTRAN INSTRUMENTS, INC. Chatsworth, CA	
DECIMALS	METRIC	ANGLES												
.XX ±.03	.X ±.8	±1°												
.XXX ±.010	.XX ±0.25													
APPROVALS	DATE	TITLE: OUTLINE/INSTALLATION DRAWING, 3055 SERIES												
ORIG AS	01/21/22	SIZE B	CAGE CODE 2W033											
CHK DV	03/08/22	DWG NO 127-3055	REV A											
APP AM	03/15/22	SCALE: 3:1												
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA		SHEET 1 OF 1										

Model Number 3055F8T		PERFORMANCE SPECIFICATIONS				DOC NO PS3055F8T																																																																			
		IEPE ACCELEROMETER				REV A, ECN 16546, 01/24/2022																																																																			
		• HIGH TEMPERATURE • BASE ISOLATED • IDEAL LOW FREQUENCY RESPONSE • HERMETICALLY SEALED • TEDS FEATURE				This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response, ±10% (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td>3055F2T</td><td>5</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3055F3T</td><td>10</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3055F4T</td><td>20</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3055F5T</td><td>50</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3055F6T</td><td>100</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3055F7T</td><td>200</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr></table>		Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)	3055F2T	5	1 to 10,000	0.5 to 1.5	-67 to +325	3055F3T	10	1 to 10,000	0.5 to 1.5	-67 to +325	3055F4T	20	1 to 10,000	0.5 to 1.5	-67 to +325	3055F5T	50	1 to 10,000	0.5 to 1.5	-67 to +325	3055F6T	100	1 to 10,000	0.5 to 1.5	-67 to +325	3055F7T	200	1 to 10,000	0.5 to 1.5	-67 to +325																															
Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)																																																																					
3055F2T	5	1 to 10,000	0.5 to 1.5	-67 to +325																																																																					
3055F3T	10	1 to 10,000	0.5 to 1.5	-67 to +325																																																																					
3055F4T	20	1 to 10,000	0.5 to 1.5	-67 to +325																																																																					
3055F5T	50	1 to 10,000	0.5 to 1.5	-67 to +325																																																																					
3055F6T	100	1 to 10,000	0.5 to 1.5	-67 to +325																																																																					
3055F7T	200	1 to 10,000	0.5 to 1.5	-67 to +325																																																																					
PHYSICAL Weight Connector Mounting Provision Material, Housing/Connector Sensing Element Element Style		Type Tapped Hole		Refer to the performance specifications of the products in this family for detailed description																																																																					
PERFORMANCE Sensitivity, ±5% [2] Range for ± 5 Volts Output Frequency Response, ±5% Frequency Response, ±10% Resonant Frequency Broad Band Resolution Linearity [3] Maximum Transverse sensitivity Strain Sensitivity @ 250µε		<table><tr><th>ENGLISH</th><th></th><th>SI</th><th></th></tr><tr><td>0.35</td><td>oz</td><td>10.0</td><td>grams</td></tr><tr><td>10-32</td><td></td><td>10-32</td><td></td></tr><tr><td>10-32 X .150 ↓</td><td></td><td>10-32 X .150 ↓</td><td></td></tr><tr><td>Titanium</td><td></td><td>Titanium</td><td></td></tr><tr><td>Ceramic</td><td></td><td>Ceramic</td><td></td></tr><tr><td>Planar Shear</td><td></td><td>Planar Shear</td><td></td></tr></table>		ENGLISH		SI		0.35	oz	10.0	grams	10-32		10-32		10-32 X .150 ↓		10-32 X .150 ↓		Titanium		Titanium		Ceramic		Ceramic		Planar Shear		Planar Shear		<table><tr><th>ENGLISH</th><th></th><th>SI</th><th></th></tr><tr><td>500</td><td>mV/g</td><td>51.02</td><td>mV/m/s²</td></tr><tr><td>10</td><td>g pk</td><td>98</td><td>m/s² pk</td></tr><tr><td>1 to 5,000</td><td>Hz</td><td>1 to 5,000</td><td>Hz</td></tr><tr><td>1 to 10,000</td><td>Hz</td><td>1 to 10,000</td><td>Hz</td></tr><tr><td>> 35</td><td>kHz</td><td>> 35</td><td>kHz</td></tr><tr><td>0.0040</td><td>g RMS</td><td>0.0392</td><td>m/s² RMS</td></tr><tr><td>± 1</td><td>% F.S.</td><td>± 1</td><td>% F.S.</td></tr><tr><td>5</td><td>%</td><td>5</td><td>%</td></tr><tr><td>0.002</td><td>g/µε</td><td>0.02</td><td>m/s²/µε</td></tr></table>		ENGLISH		SI		500	mV/g	51.02	mV/m/s ²	10	g pk	98	m/s ² pk	1 to 5,000	Hz	1 to 5,000	Hz	1 to 10,000	Hz	1 to 10,000	Hz	> 35	kHz	> 35	kHz	0.0040	g RMS	0.0392	m/s ² RMS	± 1	% F.S.	± 1	% F.S.	5	%	5	%	0.002	g/µε	0.02	m/s ² /µε
ENGLISH		SI																																																																							
0.35	oz	10.0	grams																																																																						
10-32		10-32																																																																							
10-32 X .150 ↓		10-32 X .150 ↓																																																																							
Titanium		Titanium																																																																							
Ceramic		Ceramic																																																																							
Planar Shear		Planar Shear																																																																							
ENGLISH		SI																																																																							
500	mV/g	51.02	mV/m/s ²																																																																						
10	g pk	98	m/s ² pk																																																																						
1 to 5,000	Hz	1 to 5,000	Hz																																																																						
1 to 10,000	Hz	1 to 10,000	Hz																																																																						
> 35	kHz	> 35	kHz																																																																						
0.0040	g RMS	0.0392	m/s ² RMS																																																																						
± 1	% F.S.	± 1	% F.S.																																																																						
5	%	5	%																																																																						
0.002	g/µε	0.02	m/s ² /µε																																																																						
ENVIRONMENTAL Maximum Shock Temperature Range TEDS Operating Temperature Range Seal		<table><tr><th>ENGLISH</th><th></th><th>SI</th><th></th></tr><tr><td>1,000</td><td>g pk</td><td>9800</td><td>m/s² pk</td></tr><tr><td>-67 to +325</td><td>°F</td><td>-55 to +163</td><td>°C</td></tr><tr><td>-40 to +185</td><td>°F</td><td>-40 to +85</td><td>°C</td></tr><tr><td>Hermetic</td><td></td><td>Hermetic</td><td></td></tr></table>		ENGLISH		SI		1,000	g pk	9800	m/s ² pk	-67 to +325	°F	-55 to +163	°C	-40 to +185	°F	-40 to +85	°C	Hermetic		Hermetic		Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Model 6200 Mounting Stud, QTY 1 Notes: [1] All specifications are at room temperature unless otherwise specified. [2] Measured at 100 Hz [3] Measure using zero-based straight line method, % of F.S. or any lesser range. [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier. [5] 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.																																																	
ENGLISH		SI																																																																							
1,000	g pk	9800	m/s ² pk																																																																						
-67 to +325	°F	-55 to +163	°C																																																																						
-40 to +185	°F	-40 to +85	°C																																																																						
Hermetic		Hermetic																																																																							
ELECTRICAL Supply Current Range [4] Compliance Voltage Range Output Impedance, Typ Bias Voltage Discharge Time Constant Electrical Isolation TEDS Feature		<table><tr><th>ENGLISH</th><th></th><th>SI</th><th></th></tr><tr><td>2 to 20</td><td>mA</td><td>2 to 20</td><td>mA</td></tr><tr><td>+18 to +30</td><td>Volts</td><td>+18 to +30</td><td>Volts</td></tr><tr><td>100</td><td>Ω</td><td>100</td><td>Ω</td></tr><tr><td>+9 to +14</td><td>VDC</td><td>+9 to +14</td><td>VDC</td></tr><tr><td>0.5 to 1.5</td><td>Sec</td><td>0.5 to 1.5</td><td>Sec</td></tr><tr><td>10</td><td>GΩ, min</td><td>10</td><td>GΩ, min</td></tr><tr><td>IEEE 1451.5</td><td></td><td>IEEE 1451.5</td><td></td></tr></table>		ENGLISH		SI		2 to 20	mA	2 to 20	mA	+18 to +30	Volts	+18 to +30	Volts	100	Ω	100	Ω	+9 to +14	VDC	+9 to +14	VDC	0.5 to 1.5	Sec	0.5 to 1.5	Sec	10	GΩ, min	10	GΩ, min	IEEE 1451.5		IEEE 1451.5		  																																					
ENGLISH		SI																																																																							
2 to 20	mA	2 to 20	mA																																																																						
+18 to +30	Volts	+18 to +30	Volts																																																																						
100	Ω	100	Ω																																																																						
+9 to +14	VDC	+9 to +14	VDC																																																																						
0.5 to 1.5	Sec	0.5 to 1.5	Sec																																																																						
10	GΩ, min	10	GΩ, min																																																																						
IEEE 1451.5		IEEE 1451.5																																																																							
Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055 for more information.																																																																									



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



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