

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0539
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Rypos, Inc.	
Manufacturer's Technical Representative: Gerry Maynard	
Mailing Address: 40 Kenwood Circle, Franklin, MA 02038	
Telephone: (774) 233-1027 Email: gmaynard@rypos	.com
FORCODECOM	
Product Information	1s,
Product Name: Emergency and Standby Power Systems	1 H
Product Type: Emissions After-Treatments	
Product Model Number: Various (see Certified Product Matrix)	- m
General Description: Electrically regenerated diesel particulate filter and e	electron <mark>ic con</mark> trol unit
Mounting Description: Rigid or Isolated, Base or Wall Mounted (See Certified	ed Com <mark>pone</mark> nt Matrix)
Tested Seismic Enhancements: None DATE: 04/15/2022	5
+	0
Applicant Information	4.
Applicant Company Name: TRU Compliance, by Structural Integrity Associate	es, Inc.
Contact Person: Galen Reid	
Mailing Address: 5215 Hellyer Ave. Suite 210, San Jose, CA 95138	
Telephone: (541) 604-7225 Email: greid@structint.co	m

Title: Director, TRU Compliance





HCAi



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)	
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.	
lame: Andrew Coughlin California License Number: S6082	
Aailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025	
elephone: (415) 635-8461 Email: acoughlin@structint.com	
Certification Method	
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3	
Other (Please Specify):	
FOR CODE CO	
esting Laboratory	
Company Name: CLARK TESTING LABORATORY, INC.	
Contact Person: Suzanne Mazon	
Aailing Address: 1801 Route 51, Jefferson Hills PA 15025	
elephone: (412) 387-1001 Email: smazon@clarktesting.com	
O DATE: 04/15/2022	
PIT	
DATE: 04/15/2022	

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

OSP-0539

HCAi



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design Basis of Equipment or Components	(Fp/Wp) = 1.44 Rigid; 4.50 Isolated (SDS = 2.0, z/h=1); 1.44 Rigid; 2.40 Isolated (SDS = 3.2, z/h=0)
SDS (Design spectral response accele	eration at short period, g) = 2.0 (z/h = 1.0); 3.2 (z/h = 0.0)
ap (Amplification factor) =	Rigid: 1.0; Isolated 2.5
Rp (Response modification factor) =	Rigid: 2.5; Isolated 2.0
Ω_0 (System overstrength factor) =	2.0
lp (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment
	JED LICE ADD

Date:	4/15/2022	A M	proval Expires on 04/15/202 OSP-0539	- Fil	
Name:	Mohammad Karim	F	RY Mohammad Karim	Title:	Supervisor, Health Facilities
Special	Seismic Certification Val	id <mark>Up to:</mark> SDS (g	g) = See Above	z/h =	See Above
Conditic	on of Approval (if applical	ole): <u> </u>	DATE: 04/15/2022	6	
		TROP	VIA BUILDING COT	22	





STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



	Rypos, Inc. Filter Module and Elec	tronic Con	trol Units					BLE 1
Certified Product Cons								
UUT1 and UUT2 tested	-	ng (0.25" th	ick A36 st	eel with zii	nc paint)			
Certified Options Sumr	nary:							
Mounting Configuratio	n:		- 601					
Base mounted - rigid &		=rigid)	RCUI	DEC				
Note: Installed mounting con		\sim	n and equiva	lent strength	and stiffness	to those	tested.	
Building Code: CBC 201	19	Seismic C	Certificatio	on Limits:			z/h=1.0 z/h=0.0	<i>I</i> _P = 1.5
Model Line	Model	<u> </u>	nensions	1003-	Weight	G	Notes	υυτ
	Y N	Depth	Width	Height	(lb)	111		
Filter Module	960-0068	B /63 M	oh a ¶nm	ad 4 (ar	m 812	0		1A, 1B
	C	DÁ ³ TE	: 034/1	5/2022	814	6		2A, 2B
						6		
						-		
		AR		TNIG	9			
			UILU	III				
Note:		1	1	1	1	1		I
¹ Model number refers t	o enclosure. Serial nun	nbers liste	d on the U	UT Summa	aries reflec	t interr	nal components	

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200167-CR-001-R0



Manufacturer:	Rypos, Inc.						TADIE	
	Filter Module and Elec	tronic Con	trol Units				TABLE	: 2
Certified Product Cons								
ECU enclosure 0.090 th		52-H32)						
Certified Options Sumr	mary:							
<i>Mounting Configuratio</i> Wall mounted - rigid & t Note: Installed mounting con	flexible/isolated (A=iso		TTY VVVAAAX.	DE CO	and stiffness	to those teste	ed.	
Building Code: CBC 201	19		Certificatio	//// / ////////	S _{DS} =	2.0g z/h 3.2g z/h		1.5
Model Line	Model	<u> </u>	mensions	1000-	Weight	3	Notes	υυτ
		Depth	Width	Height	(lb)			
ECU Module	970-0022	BY: Mo	bhamm 14.2	ad Kar 28.3	im 60	<mark>Printe</mark> d Ci	ount Technology rcuit Board	3A, 3B, 4A, 4B
	C	DATE	: 04/1	5/2022	2	-	Iole Technology rcuit Board	5A, 5B, 6A, 6B
			111111			6		
						V /		
		VAT						
		10	UILD	ING				
Note:		1	1	1	1	1		1
¹ Model number refers t	o enclosure. Serial nun	nbers liste	d on the U	UT Summa	aries reflec	t internal c	components	

04/15/2022



UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	Ι _Ρ
1A	Filter Module (base mounted - isolated)	JID 17-01263 R3 (UUT 1)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
1B	Filter Module (base mounted - rigid)	JID 17-01263 R3 (UUT 4)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
2A	Filter Module (base mountet - isolated)	JID 17-01263 R3 (UUT 2)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
2B	Filter Module (base mounted - rigid)	JID 17-01263 R3 (UUT 3)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
3A	ECU Module (wall mounted - isolated)	JID 17-01263 R3 (UUT 5A)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
3B	ECU Module (wall mounted - rigid)	JID 17-01263 R3 (UUT 6A)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
4A	ECU Module (wall mounted - isolated)	JID 17-01263 R3 (UUT 5B)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
4B	ECU Module (wall mounted - rigid)	JID 17-01263 R3 (UUT 6B)	Clark Testing 04/15/2022	2018	Yes	2.0 3.2	1 0	1.5
5A	ECU Module (wall mounted - isolated)	JID 17-01263 R3 (UUT 5C)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
5B	ECU Module (wall mounted - rigid)	JID 17-01263 R3 (UUT 6C)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
6A	ECU Module (wall mounted - isolated)	JID 17-01263 R3 (UUT 5D)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
6B	ECU Module (wall mounted - rigid)	JID 17-01263 R3 (UUT 6D)	Clark Testing	2018	Yes	2.0 3.2	1 0	1.5
Notes:								

2200167-CR-001-R0



0.85

2.13

	Rypos, Inc					
Model Line:	Filter Mod	ule and Electronic (Control Units			JUT 1A
Model Number:	960-0068			Serial Number:	1048973-1-18-1	
Product Construc	tion Summary:					
Filter Module Hou	sing: 0.25" thick	A36 steel with zinc	paint			
Options/Subcom	oonent Summar	'y:				
		-				
			DCODE			
		F	OR CODE C	01		
		IED F	OR CODE C	ONIDI		
		ENED FO	UUT Properties	ONIBLIS		
Weight		Dimension (in)	UUT Properties		st Natural Frequer	ncy (Hz)
Weight (lb)	Depth	Dimension (in) Width	UUT Properties		st Natural Frequer Side-Side	ncy (Hz) Vertical
-	Depth 63		UUT Properties	Lowes	-	1
(lb)	-	Width 33	UUT Properties	Lowes Front-Back 3.06	Side-Side	Vertical

ICC-ES AC156

Test Mounting Details:

CBC 2019





3.20

2.40

UUT 1A was installed in a test housing that base mount-isolated. See installation drawing on the next page. Four (4) Mason SLRSO-B-450 isolators were used to mount the housing to the shake table. Each isolator was mounted to the shake table with four (4) 5/8" - 11 Grade 5 bolts with lock and flat washers torqued to 90ft-lbs. Four(4) 4"x4"x1.5 steel adaptor blocks were bolted to the top of each isolator with four(4) 1/2" -13 Grade 5 bolts, washers, and lock washers torqued to 75ft-lbs. Two C channels -C6X8.2 x 45.13" A36 Steel - were placed onto the top of the blocks. The module and C channel were mounted to the isolators with one(1) 1" - 8 Grade 8 bolts with washers and lock washers at each isolator. The 1"-8 bolts were torgued to 220 ft-lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2.0

3.2

1.0

0.0

1.5







Model Number: 960-0068 Serial Number: 1048973-1-18-1	Manufacturer:	Rypos, Inc.					
	Model Line:	Filter Module and Electronic Control Ur	nits				
<form><form><form><form><form></form></form></form></form></form>	Model Number:	960-0068	Serial Number:	104897	/3-1-18-1		
	Isolators Details:						
130 Ration Driver System 130 Ration Driver 140 Rated. 101 W. Creekent Mes, Suite 147 1493 277 278 160 Mascon-Ind.com 101 W. Creekent Mes, Suite 147 1493 277 278 160 Mascon-Ind.com 101 W. Creekent Mes, Suite 147 1493 277 278 160 Mascon-Ind.com 101 W. Creekent Mes, Suite 147 1493 277 278 160 Mascon-Ind.com 101 W. Creekent Mes, Suite 147 1493 277 278 160 Mascon-Ind.com 101 W. Creekent Mes, Suite 147 1493 277 278 160 Mascon-Ind.com 101 W. Creekent Mes, Suite 149 Mascon-Ind.com <t< td=""><td></td><td>MASON INDUSTRIES, Inc.</td><td>DB NAME</td><td></td><td>611</td><td>Den l</td></t<>		MASON INDUSTRIES, Inc.	DB NAME		611	Den l	
Yes Statista-0227 biologMason-indicom TH4535-2727 biologMason-indicom Statista-0227 biologMason-indicom TH4535-2727 biologMason-indicom Statista-0227 biologMason-indicom Statista-0277 biologMason-indicom Statista-0277 biologMason-indicom Statista-0277 biologMason-indicom Statista-02777 biologMason-indicom Statista-02777	2522	350 Rabro Drive 2101 W. Crescent Ave., Suite D CI			JLI	130	
Deficie Deficie Deficie Deficie Deficie Deficie Deficie Deficie Deficie Deficie Vertical Linit Stope Deficie Deficie <td>5</td> <td>631/348-0282 714/535-2727</td> <td></td> <td></td> <td>- 1" DE</td> <td></td>	5	631/348-0282 714/535-2727			- 1" DE		
requested Railed graph Railed Spring Max. Heriz (bin draining Color drainin color draining color draining color drainin color draining color		Info@Mason-Ind.com Info@MasonAnaheim.com			- SERIE		
Vertical Limit Stops E Alged Railed Spring Max. Horiz. Capacity Defit. Constant: Housing Spring Out of contact. during normal operation Max. Horiz. Size Capacity Defit. Constant: Housing Spring Capacity Defit. Constant: Housing Spring Rubber Max. Horiz. Size Stop Hall Size Stop Hal			TYPE SLRSO RATINGS				
$\frac{\text{operation}}{\text{Rubber}} + \frac{\text{Adjustment}}{\text{Bolt}} + \frac{\text{Bolt}}{\text{Bolt}} + \frac{1}{\text{Bolt}} + \frac{1}{$	Vertical Out of c	Limit Stops-	Capacity Defl.	Constant	Housing		
Non-Skid Non-Skid Negrene Accustical In Non-Sistimic zones and/y at is used Negrene Accustical In Non-Sistimic zones and/y at is used Negrene Accustical In Non-Sistimic zones and/y at is used Negrene Accustical In Non-Sistimic zones and/y Negrene Accustical Negrene Accustical SLRSO-4-500 SLRSO-4-500 760 Starso-4-500 760 Starso-4-500 760 Starso-4-1360 1.00 Starso-4-1360 1.00 Non-Skid Negrene Accustical In Non-Signing Tree Negrene Accustical Starso-4-500 5400 Starso-4-500 5400 Starso-4-500 5400 Starso-4-19600 6600 Starso-4-19600 9540 Starso-4-19600							
Nubber Subber Colar H Lower Restraining H Lower Non-Skid Pad is used In Non-Seismic zones only. Restraining in Non-Skid Pad is used In Non-Seismic zones only. Restraining in Height K/K 0D0H B B Signo B 439Non-Skid Lower Housing Signo B 439Signo B 4300 1000 <br< td=""><td>1</td><td></td><td>SLRSQ-B-115 115 2:00</td><td>57</td><td>12.2 \$</td><td>Silver</td></br<>	1		SLRSQ-B-115 115 2:00	57	12.2 \$	Silver	
Collar Diameter <			SLRSO-B-280 280 1.60	174	5.0 (Green	
Section in Non-Setial in Non-Setial in Non-Setial in Non-Setial in Non-Setial in Non-Setial is used in Non-Setial i							
Nut Hit Support Support <t< td=""><td>9</td><td></td><td></td><td></td><td></td><td></td></t<>	9						
SLRSO-1-210021002.1Yellow**Non-Skid Pad is used in Non-Seismic zones only. Remove pad prior to installing in seismic zones. Reduce published height by 1/8° if pad is removed.Neoprene Acoustical Baseplate must be uniformly supportedSLRSO-1-2385 2385 2385 2385 2385 2385 1.00 2395 2395 2395 2395 1.00 2395No2650 2385 1.5 Red* SLRSO-24200 4200 200 1.00 200 1.8 2010 200 1.00 200 2.1 2385 2385 1.5 Red*SkrSO-2-2500 SupportedSupported Uniformly supportedSkrSO-2-4200 SLRSO-2-4200 4200 200 1.00 200 200 1.00 200 200 200 2001.8 200 200 200 200 200 200Black* Yellow*Spring Size C 27/8Ratio Aligo 0.90-1.10 0.92Ratio 0.92200 200 200 2001.00 200 200 2001.00 200 200 2002.0 200 200 200Yellow** 200 200 200Illustration shows SLRSO-B housing which contains one (1) C spring, SLRSO-2 housing which contains one (1) C spring, SLRSO-2 housing which contains one (1) C spring shad SLRSO-4 housing which contains one (1) C spring shad SLRSO-4 housing which contains one (1) C spring shad SLRSO-4 housing which contains one (1) C spring shaw an additional travel to solid equal to 50% of the rated deflection.StrSO-4 solo 2100 2100 21002100 2100 21002100 2100 2100211 2100 21002100 2100 21002100 2100 210021100 2100 21002100 2100 21002100 2100 21002100 2100 21002100 2100 <td></td> <td></td> <td>SLRSO-1-1350 1350 1.00</td> <td>1350</td> <td>3.3</td> <td>Yellow</td>			SLRSO-1-1350 1350 1.00	1350	3.3	Yellow	
Steel <th c<="" td=""><td></td><td>140</td><td>SLRSO-1-1750 1750 1.00 SLRSO-1-2100 2100 1.00</td><td></td><td></td><td></td></th>	<td></td> <td>140</td> <td>SLRSO-1-1750 1750 1.00 SLRSO-1-2100 2100 1.00</td> <td></td> <td></td> <td></td>		140	SLRSO-1-1750 1750 1.00 SLRSO-1-2100 2100 1.00			
Non-Skid Pad is used in Non-Seismic zones only. Remove pad prior to installing in seismic zones. Reduce published height by 1/8" if pad is removed. SPRING DATA SPRING DATA SPRING DATA SIRSO-4-10600 10600 1.00 4200 1.5 Red-* SLRSO-2-4200 4200 100 4200 1.5 Yellow* SLRSO-2-4770 4770 1.00 47770 1.3 Yellow** SLRSO-4-4700 7000 1.00 5400 2.0 Yellow SLRSO-4-4700 7000 1.00 5400 2.0 Yellow* SLRSO-4-5400 5400 1.00 8400 1.3 Yellow** SLRSO-4-10600 10600 1.00 9540 1.2 Yellow** SLRSO-4-10600 10600 1.00 10000 1.1 Red* SLRSO-4-10600 10600 1.00 10000 1.1 Red* SLRSO-4-10600 10600 1.00 10000 1.1 Red* SLRSO-4-10600 10600 1.00 11740 0.9 Red** SLRSO-4-10600 10600 1.00 11740 0.9 Red** SLRSO-4-10600 10600 1.00 10000 1.1 Red* SLRSO-4-10600 10600 1.00 10000 1.1 Red* SLRSO-2 Red* SLRSO-2 housing which contains one (1) SLRSO-2 Red* SLRSO-2 housing which contains for (4) C springs. All springs have an additional travel to solid equal to 50% of the rated deflection.			SLRSQ-1-2385 2385 1.00	2385	1.9	Yellow**	
Non-Seismic zones only. Remove pad prior to installing in seismic zones. Reduce published height by 1/8" if pad is removed.Neoprene Acoustical Cup Baseplate must be uniformly supportedSLRSO-2-3500 SLRSO-2-4200 4200 SLRSO-2-4200 4200 SLRSO-2-4770 1.00 SLRSO-4-5400 SLRSO-4-7000 SLRSO-4-8400 SLRSO-4-8400 SLRSO-4-8400 SLRSO-4-8400 SLRSO-4-8400 SLRSO-4-8400 SLRSO-4-8400 SLRSO-4-411/40 11740 1.00 1.100 1.11 1.100 1.11 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 1.1100 	Non Ch	Housing U4					
Remove pad prior to installing in seismic zones. Reduce published Baseplate must be height by 1/8" if pad is removed. Baseplate must be uniformly supported SLRSO-2.4770 4770 1.00 5400 2.0 Yellow** SLRSO-4-5400 5400 1.00 5400 2.0 Yellow** SLRSO-4-5400 8400 1.00 5400 2.0 Yellow** SPRING DATA SLRSO-4-45400 8400 1.00 9540 1.2 Yellow** SLRSO-4-9540 9540 1.00 9540 1.2 Yellow** SLRSO-4-4000 0600 1.00 10600 1.1 Red* SLRSO-4-10600 0600 1.00 10600 1.1 Red** SLRSO-4-10600 0600 1.00 10600 1.1 Red** SLRSO-4-10600 0600 1.00 11740 0.9 Red** With RED Inner spring ** with GREEN inner spring ** with GREEN inner spring ** with GREEN inner spring Illustration shows SLRSO-4 housing which contains one (1) E springs and SLRSO-4 housing which contains one (1) C springs. Size L W H T MBD HCW HCL	Pad is u	used Neoprene Acoustical	SLRSO-2-3500 3500 1.00	3500	1.8 8	Black*	
seismic zones. Reduce published Baseplate must be height by 1/8" if pad is removed. SLRSO-4-5400 5400 1.00 5400 2.0 Yellow SLRSO-4-5400 5400 1.00 7000 1.6 Black* SPRING DATA SPRING DATA Size OD Height K ₂ /K ₂ Ratio OD/OH SLRSO-4-8400 9540 1.00 9540 1.2 Yellow* SLRSO-4-8400 9540 1.00 9540 1.2 Yellow** SLRSO-4-8400 9540 1.00 9540 1.2 Yellow** SLRSO-4-9540 9540 1.00 10600 1.1 Red** SLRSO-4-9000 0600 1.00 10600 1.1 Red** SLRSO-4-91740 11740 10.0 11740 0.9 Red** With RED Inner spring ** with GREEN inner spring StrSO-4-91740 11740 1.00 11740 0.9 Red** Size W H T							
SPRING DATA Spring Free Ratio K/K, K OD/OH OD/OH Build of the state Str SO-4.8400 8400 1.00 9540 1.2 Yellow* Size OD Height K/K, OD/OH OD/OH SLRSO-4.9540 9540 1.00 9540 1.2 Yellow** B 23/8 4 0.70-0.80 0.80 - 1.25 0.00 11740 1.00 11740 0.9 Red** B 23/8 4 0.70-0.80 0.80 - 1.25 0.92 With RED inner spring ** with GREEN inner spring Illustration shows SLRSO-8 housing which contains one (1) C springs and SLRSO-4 huich contains four (2) C springs and SLRSO-4 huich contains four (2) C springs have an additional travel to solid equal to 50% of the rated deflection. Size L W H T MBD HCW HCL D E SLRSO-2 Huich contains four (4) C springs. SLRSO-2 19/12 11/4 8/4 3/8 5/8 31/2 7 1/2 5/8 13/8 SLRSO-4 13/4 8 8/4 3/8 5/8 31/2 7 1/2 5/8 1/8 <td>seismic beight k</td> <td>zones. Reduce published Baseplate must be</td> <td></td> <td></td> <td>2.0</td> <td>Yellow</td>	seismic beight k	zones. Reduce published Baseplate must be			2.0	Yellow	
SPRING DATA Spring Free Ratio Ratio OD/OH SLRSO-4-9540 9540 1.00 9540 1.2 Yellow** B 23/8 4 0.70-0.80 0.80 - 1.25 0.00 10.00 10.00 10.00 10.00 11.1 Red** B 23/8 4 0.70-0.80 0.80 - 1.25 0.92 0.92 0.00 10.00 10.00 10.00 11.1 Red** B 23/8 4 0.70-0.80 0.80 - 1.25 0.92 0.92 0.92 0.00 0.00 1.00 11740 0.9 Red** Illustration shows SLRSO-8 housing which contains one (1) Size W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E	neight i	iy ito il pad is removed.					
Spring Free Ratio Ratio OD/OH B 23/8 4 0.70-0.80 0.80 - 1.25 C 27/8 41/8 0.90-1.10 0.92 Illustration shows SLRSO-8 housing which contains one (1) B springs Not shown is SLRSO-1 housing which contains one (1) C springs and SLRSO-4 housing which contains four (4) C springs. Size L W H T MBD HCW HCL D E Suprings have an additional travel to solid equal to 50% of the rated deflection. SURSO-4 13/4 8/4 3/4 5/8 3/1/2 7 1/2 11/8	SDDIN		SLRSO-4-9540 9540 1.00	9540	1.2	Yellow**	
$\frac{B}{C} \frac{23/8}{27/8} \frac{4}{41/8} \frac{0.70-0.80}{0.90-1.10} \frac{0.80-1.25}{0.92}$ $\frac{B}{C} \frac{27/8}{27/8} \frac{41/8}{41/8} \frac{0.90-1.10}{0.92}$ $\frac{B}{C} \frac{27/8}{27/8} \frac{41/8}{41/8} \frac{0.90-1.10}{0.92} \frac{0.92}{0.92}$ $\frac{FYPE SLRSO DIMENSIONS (inches)}{Size L W H T MBD HCW HCL D E}$ $\frac{Size L W H T MBD HCW HCL D E}{SLRSO-1 housing which contains one (1)}$ $\frac{Size L W H T MBD HCW HCL D E}{SLRSO-1 housing which contains two (2) C}$ $\frac{Size L W H T MBD HCW HCL D E}{SLRSO-1 housing which contains four (4) C springs}$ All springs have an additional travel to solid equal to 50% of the rated deflection.	SPRING						
C 2 7/8 4 1/8 0.90-1.10 0.92 TYPE SLRSO DIMENSIONS (inches) Illustration shows SLRSO-B housing which contains one (1) B spring. Not shown is SLRSO-1 housing which contains one (1) (1) C spring. SLRSO-2 housing which contains two (2) C springs and SLRSO-4 which contains four (4) C springs. All springs have an additional travel to solid equal to 50% of the rated deflection. Size L W H T MBD HCW HCL D E SLRSO-2 14/2 51/2 41/4 83/4 3/8 5/8 23/4 7 1/2 11/8 SLRSO-1 9 1/2 51/4 83/4 3/8 5/8 31/2 7 1/2 5/8 1 3/8			* with RED inner spring ** with G	GREEN inn	er spring		
TYPE SLRSO DIMENSIONS (inches) Illustration shows SLRSO-B housing which contains one (1) B spring, Not shown is SLRSO-1 housing which contains one (1) Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size L W H T MBD HCW HCL D E Size Size 19/12 51/4 83/4 3/8 5/8 31/2 7 1/2 5/8 13/8 Size Size 14 51/4 83/4 3/8 5/8 31/2 12/4 5/8 13/8	672.6						
SizeWWHTB springSLRSO-1 housing which contains one (1) C springSLRSO-1 housing which contains for (2) CCSLRSO-1MBDHCWHCLDESpringSLRSO-2 housing which contains four (2) CCSLRSO-881/241/48/38/83/85/831/271/211/8All springs have an additional travel to solid equal to 50% of the rated deflection.SLRSO-413/3/488/43/85/831/2121/45/813/8							
(1) C springs and SLRSO-2 housing which contains two (2 C springs and SLRSO-4 which contains four (4) C springs. SLRSO-8 81/2 41/4 83/4 3/8 5/8 23/4 7 1/2 11/8 All springs have an additional travel to solid equal to 50% of the rated deflection. SLRSO-2 14 51/4 83/4 3/8 5/8 31/2 12 1/4 5/8 13/8	Illustratio	on shows SLRSO-B housing which contains one (1)					
springs and SLRSO-4 which contains four (4) C springs. All springs have an additional travel to solid equal to 50% of the rated deflection. SLRSO-1 9 1/2 5 1/4 8 3/4 3/8 5/8 3 1/2 7 1/2 5/8 1 3/8 SLRSO-2 14 5 1/4 8 3/4 3/8 5/8 3 1/2 1 2 1/4 5/8 1 3/8	(1) C SDI	ring, SLRSO-2 housing which contains two (2) C			and the second se		
rated deflection. SLRSO-4 13 3/4 8 8 3/4 3/8 3/4 6 1/4 11 7/8 1 3/8			SLRSO-1 91/2 51/4 83/4 3/8	5/8 31/;	2 7 1/2 5/8	3 1 3/8	
	All spring rated del	is have an additional travel to solid equal to 50% of the lection.	SLRSO-2 14 51/4 83/4 3/8 SLRSO-4 133/4 8 83/4 3/8	3/4 61/			





2200167-CR-001-R0



Manufacturer:	Rypos, In	nc.									
Model Line:	Filter Mo	dule an	d Electronic C	ontrol Uni	its				U	UT 1	В
Model Number:	960-0068	3				Serial Nı	mber:	1048973-	1-18-1		
Product Constru	ction Summary	:									
Filter Module Ho	using: 0.25" thic	k A36 st	eel with zinc	paint							
Options/Subcom	ponent Summa	ary:									
				DCC							
			ED FO	OKCC		Mp,					
			JEP 1			(V)					
				UUT PI	roperties		T				
Weight		Di	mension (in)					st Natural Frequer			
(lb)	Depth	12	Width		eight 39		-Back	Side-Side		Vertical	
812	63		33		21		3.4	15	5.5	>33	3.3
		P	UUT Highes								
Buildiı	ng Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2019		ICC-ES AC	156 04/	$15^{2.0}_{2.02}$	2 1.0	1.5	3.20	2.40	2.13	0.85
Test Mounting De		Y		99888889	3.2	0.0	6				
rest mounting D	etuns:					BBSY,	N				
			Op 10				1				
Company of the local division of the local d	and the second		- VIA			\mathcal{O}^{\vee}	and the second				75
		-10-		BUIL	DING		2				
		-	UUT 1B	Total State			No The lot				-
The local division of the	-	-	1.1.1.1.1.1.1	De CR			" Hit	•	-	A HILL	
L PERMI	1 6 2 8	R	BEE - 1-4			- 0 -	-		ARE 19	AL-A	
-		1	-	6. E		16		The	ANY	Marrie Con	100
		-81	100	12					-	A	
	the second se	241.4		KG ,		18			-		100
	1000	1000	Contraction of the local division of the loc		the second se	And in case of the local division of the loc					
		-		-	5	17.		Not-		100 00	1800
						- 1		1			1850
			06.27.2	016-1 5 -86				1	- 11		1-12

UUT 1B was installed in a test housing that was base mounted - rigid to the shake table with four(4) 1"-8 Grade 5 bolts with lock and flat washers

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200167-CR-001-R0



Manufacturer:	Rypos, In	IC.								
Model Line:	Filter Mod	dule and Electronic (Control Uni	ts				U	UT 2	'A
Model Number:	960-0068				Serial Nu	umber:	1048973	-1-18-2		
Product Construc	tion Summary:	:								
Filter Module Hou	sing: 0.25" thicl	k A36 steel with zinc	paint							
Options/Subcomp	onent Summa	iry:	OR CC	DE Co	OMB					
		LANK V	UUT Pr	roperties						
Weight		Dimension (in)	Ann West Morent			Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	eight 39	Front	t-Back	Side	-Side	Ver	tical
814	63	33		21	2.	.39	2.	.09	5.	.17
		UUT Highes	st Passed S	eismic Run	Informa	tio <mark>n</mark>		_		_
Buildin	g Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2019		C156 04/	15 <mark>/202</mark> 3.2	2 ^{1.0} 0.0	1.5	3.20	2.40	2.13	0.85
Test Mounting De	uut 2A	EFO PARA	BUILI	DI	00		Alfred Al			

UUT 2A was installed in a test housing that base mount-isolated. See installation drawing on the next page. Four (4) Mason SLRSO-B-450 isolators were used to mount the housing to the shake table. Each isolator was mounted to the shake table with four (4) 5/8" - 11 Grade 5 bolts with lock and flat washers torqued to 90ft-lbs. Four(4) 4"x4"x1.5 steel adaptor blocks were bolted to the top of each isolator with four(4) 1/2" -13 Grade 5 bolts, washers, and lock washers torqued to 75ft-lbs. Two C channels - C6X8.2 x 45.13" A36 Steel - were placed onto the top of the blocks. The module and C channel were mounted to the isolators with one(1) 1" - 8 Grade 8 bolts with washers and lock washers at each isolator. The 1"-8 bolts were torqued to 220 ft-lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200167-CR-001-R0





Page 13 of 28



anufacturer:	Rypos, Inc.					
odel Line:	Filter Module and Electronic Control U	Inits			UU	T 2A
odel Number:	960-0068	Seria	l Number:	ــــ -1- 1048973	18-2	
olators Details:						
-						
	Manufacturers of Vibration Control Products	JOB NAME			SI	RSC
	SU Rabio Drive 2101 W. Gresceni Ave., Sule D	CUSTOMER				NUC
(and the second	631/348-0282 714/535-2727	CUSTOMER P.O.				B, 1, 2 &
Info	@Mason-Ind.com Info@MasonAnabelm.com	DWG. NO.			SE	RIES SPRIN MOUNT
	www.masonmid.com		0,		_	
"D" Tap - 4 requested	Holes unless otherwise	TYPE SLRSO RA		2012.002000		
Vertical Lim	it Stops-		Rated Rated Capacity Defl.		Max. Horiz. Housing	Spring
Out of conta during norm	act,	Size	(lb) (in)	(lb/in)	G Rating	Color
operation	Adjustment SF	SLR30-B-65	65 2.10	31 40	21.6 16.5	Brown Wht/Blk
	Bolt	SLRSO-B-115	115 2.00	57	12.2	Silver
	bber MBD -Max	SLRSO-B-150 SLRSO-B-280	150 2.00 280 1.60	75 174	9.3 5.0	Orange Green
Sni	lar Bolt Diameter ohan	nnsiRs0-9-460	450 1.31	344	3.1	Red
		SLRSO-B-750 SLRSO-B-1000	750 1.12 1000 1.00	670 1000	1.9 1.4	White Blue
Re	straining	SLRSO-1-1000	1000 1.00	1000	4.4	Black
Nu		1/131RS0 1-1350 SLRS0 1-1750	1350 1.00	1350 1750	3.3	Yellow Black*
1	HCL	SLRSO-1-2100	2100 1.00	2100	2.5	Yellow*
1	Stord Stord	SLRSO-1-2385	2385 1.00	2385	1.9	Yellow**
Non-Skid	ACW L Housing	SLRSO-1-2650 SLRSO-1-2935	2650 1.00 2935 1.00	2650 2935	1.7	Red* Red**
Pad is used		SLRSO-2-3500	3500 1.00	3500	1.8	Black*
	mic zones only. d prior to installing in	SLRSO-2-4200 SLRSO-2-4770	4200 1.00	4200 4770	1.5	Yellow* Yellow**
seismic zon	es. Reduce published Baseplate must be	SLRSO-4-5400	5400 1.00	5400	2.0	Yellow
height by 1/	8" if pad is removed. uniformly supported	SLR\$0-4-7000 SLR\$0-4-8400	7000 1.00 8400 1.00	7000 8400	1.6	Black* Yellow*
	301	- SLRSO-4-9540	9540 1.00	9540	1.3	Yellow**
SPRING DA		SLRSO-4-10600 SLRSO-4-11740	10600 1.00 11740 1.00	10600 11740	1.1	Red* Red**
	ring Free Ratio Ratio D Height K,/K, OD/OH					Rea
B 2	3/8 4 0.70-0.80 0.80 - 1.25	* with RED inner	spring with	GREEN inne	er spring	
C 2	7/8 41/8 0.90-1.10 0.92					
		TYPE SLRSO DIM	ENSIONS /inch	ies)		
B spring, Not	ows SLRSO-B housing which contains one (1) shown is SLRSO-1 housing which contains one	Size L	Contraction in a substantiant of particular designments	MBD HCV	V HCL	DE
C spring.	SLRSO-2 housing which contains two (2) C SLRSO-4 which contains four (4) C springs.	SLRSO-B 81/2				1/2 11/8
	ve an additional travel to solid equal to 50% of the	SLRSO-1 91/2 SLRSO-2 14	51/4 83/4 3/ 51/4 83/4 3/		2 7 1/2 12 1/4	5/8 13/8 5/8 13/8
rated deflection		SLRSO-4 133/4				7/8 13/8
	ratings expressed in G's are based on tests with bolted o steel top and bottom.					
CONTROCTIONS I	o acos cop ena concern.					





2200167-CR-001-R0



Manufacturer:	Rypos, Inc.									UT 2	P
Model Line:		ule and I	Electronic Co	ontrol Unit	S				ļ		.D
Model Number:	960-0068					Serial Nı	ımber:	1048973	-1-18-2		
Product Construc Filter Module Hou	-	A36 stee	el with zinc p	aint							
Options/Subcom	ponent Summary	<i>y:</i>	-0	RCO	DEC						
		1	JED FO	UUT Pro		Mp					
Weight		Dim	ension (in)	Wallbrack			Lowes	t Natural	Frequen	cv (Hz)	
(lb)	Depth		Width	OSHei	ght 39	Front	-Back		-Side	1	tical
814	63		33	1	1		7.8	15	5.3	>3	3.3
			JUT Highest	Passed Se	ismic Rur	n Informa	tion				
Buildin	ig Code		Test Criter	ia	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2019	C	IC <mark>C-ES AC1</mark>	56 04/	15/202 3.2	2 ^{1.0} 0.0	1.5	3.20	2.40	2.13	0.85
		1	IT 2B		DING						
UUT 2B was insta and flat washers	lled in a test hou	sing tha	t was base m	ounted - r	igid to the	e shake ta	ble with	four(4) 1"	-8 Grade	5 bolts wi	th lock
Unit maintained s	structural integrit	ty and re	emained fund	tional per	manufac	turer requ	uirement	after shal	ke table t	est.	
Contents were ind	-										

2200167-CR-001-R0



Manufacturer:	Rypos, In	IC.									
Aodel Line:	Filter Mo	dule and	Electronic C	ontrol Uni	its				U	UT 3	5A
Aodel Number:	970-0022	-00-00				Serial N	umber:	1806901	4		
Product Construct	ion Summary	:									
CU Enclosure: 0.0	90" thick alun	ninum al	loy (5052-H32	2)							
Options/Subcomp	onent Summo	ırv:									
PCB (Surface Mour		-									
,	6,	,									
				RCC	DEC						
			FL			Ms					
			NE								
				UUT PI	roperties		Z				
Weight		Din	nension (in)					st Natural		r	
(lb)	Depth	R	Width		eight 39	162	-Back		-Side		tical
60	7.0		14.2		28.3	10101	/A	N	/A	N	/A
			UUT Highest						1	1	<u> </u>
Building	Code		Test Crite	ria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC 2	019		ICC-ESAC:	156 04/	$\frac{15202}{15202}$	2 1.0	1.5	3.20	2.40	2.13	0.85
		Y			3.2	0.0	5				
est Mounting Det	ans:	-			HHHH	ARDY.	N				
Statement in		TI	00			UUT 3A	- Jane 10		CALL COL	ALLACINE THE	
Carden In	1	leci	ARTICA		19-10-	COY	TER		p CS Z		
		1		BUTI	THO	11.	A28 FB A29 SS	. 1.	A31 A32		
the second			E		Res		A30 V		A33	V	
1.3.2.1.		100		-	1						
1000		非正式	1 miles		Ki ka						
	1000	121		A							
9 H H H H	the part	FIL	7	-				R.			
and the second second	1			11		Concession Constant Land	TO SHALF OVY FUNKER UNIT TRANSFORMER WITH TRANSFORMER WITHOUT	And the second s	price Construct (Jan)		

UUT 3A was installed onto a mounting frame and the secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts torqued to 25ft-lbs. The wall fixture was mounted to four(4) Mason SLRSO-B-450 isolators using four(4) 1/2" - 13 Grade 5 bolts, washers, and lock washers. Each isolator was mounted to the shake table with four(4) 5/8" - 11 Grade 5 bolts with lock and flat washers, for a total of sixteen(16) 5/8" - 11 Grade 5 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



Manufacturer:	Rypos, Inc.		UUT 3A
1odel Line:	Filter Module and Electronic Contr	rol Units	
Model Number:	970-0022-00-00	Serial Number: 18069014	
solator Details:			
N	ASON INDUSTRIES Inc	1	
17237	IASON INDUSTRIES, Inc Manufacturers of Vibration Control Products		- SLRSO
	350 Rabro Drive auppauge, NY 11788 2101 W. Crescent Ave., Suite Anaheim, CA 92801	CUSTOMER P.O.	1" DEFLECTION
	631/348-0282 714/535-2727 FAX 631/348-0279 FAX 714/535-5738	MASONMI	B, 1, 2 & 4 SERIES SPRING
	nfo@Mason-Ind.com Info@MasonAnabaim.com www.Mason-Ind.com	DWG. NO.	MOUNTS
"D" Tap -	4 Holes unless otherwise	TYPE SLRSO RATINGS	
requeste	E	Rated Rated Spring	Max. Horiz.
Out of co		Size Capacity Defi. Constant (lb) (in) (lb/in)	Housing Spring G Rating Color
during no operation		SP_SLRSO-B-65 65 2.10 31 SbR\$0B-85 85 2.10 40	21.6 Brown 16.5 Wht/Blk
	Bolt	SLRSO-B-115 115 2.00 57	12.2 Silver
	Rubber MBD -Max Bolt	SLRSO-B-150 150 2.00 75 SLRSO-B-280 280 1.60 174	9.3 Orange 5.0 Green
	Coller Diameter	SLRSO-B-450 450 1.31 344 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.1 Red 1.9 White
	Lower	SLRSO-B-1000 1000 1.00 1000	1.4 Blue
	Restraining 2	SLRSO-1-1000 1000 1.00 1000 SLRSO-1-1350 1350 1.00 1350	4.4 Black 3.3 Yellow
, i i i i i i i i i i i i i i i i i i i		04/ SLRS0-1-1750 1750 1.00 1750 SLRS0-1-2100 2100 1.00 2100	2.5 Black* 2.1 Yellow*
	Hel	SLRSO-1-2385 2385 1.00 2385	1.9 Yellow**
Non-Skid	HCW L Housing	SLRSO-1-2650 2650 1.00 2650 SLRSO-1-2935 2935 1.00 2935	1.7 Red* 1.5 Red**
Pad is us	ed Neoprene Acoustical	SLRSO-2-3500 3500 1.00 3500	1.8 Black*
Remove	eismic zones only. pad prior to installing in	SLRSO-2-4200 4200 1.00 4200 SLRSO-2-4770 4770 1.00 4770	1.5 Yellow* 1.3 Yellow**
	ones. Reduce published Baseplate must b 1/8" if pad is removed. uniformly supporte	0100 0100 0100 0100	2.0 Yellow
(isight 2)		SLRS@-4-8400 8400 1.00 8400	1.6 Black* 1.3 Yellow*
SPRING	B	SLRSO 4-9540 9540 1.00 9540 SLRSO 4-10600 10600 1.00 10600	1.2 Yellow** 1.1 Red*
5	Spring Free Ratio Ratio	SLRSO-4-11740 11740 1.00 11740	0.9 Red**
Size	OD Height K,/K, OD/OH 23/8 4 0.70-0.80 0.80 - 1.25	* with RED inner spring ** with GREEN inn	er spring
Č	27/8 41/8 0.90-1.10 0.92		
		TYPE OF DEC DIMENSIONS (Inchas)	
Illustration B spring, N	shows SLRSO-B housing which contains one (1) lot shown is SLRSO-1 housing which contains one	TYPE SLRSO DIMENSIONS (inches) Size L W H T MBD HC	W HCL D E
(1) C sprin	g, SLRSO-2 housing which contains two (2) C d SLRSO-4 which contains four (4) C springs.	SLRSO-B 81/2 41/4 83/4 3/8 5/8 23/	
	have an additional travel to solid equal to 50% of the		2 7 1/2 5/8 1 3/8 2 12 1/4 5/8 1 3/8
rated defie		SLRSO-4 133/4 8 83/4 3/8 3/4 61/	4 11 7/8 13/8
	ad ratings expressed in G's are based on tests with b is to steel top and bottom.	polted	

2200167-CR-001-R0



Manufacturer:	Rypos, In	IC.									
Model Line:	Filter Mo	dule an	d Electronic (Control Uni	ts				U	UT 3	5B
Model Number:	970-0022	-00-00				Serial Nı	mber:	18069014	4		
Product Construc	tion Summary	:									
ECU Enclosure: 0.	090" thick alum	ninum a	lloy (5052-H3	32)							
Options/Subcom	onont Summa										
PCB (Surface Mou		-)								
02 (00.1000 1.00			/								
				DR CC	DEC						
			EDF	UN CO	WWW	OMP					
			NEV								
					operties		Z			()	
Weight (lb)	Denth	DN	mension (in) Width		0530		-Back	st Natural	Frequen -Side	1	tical
60	Depth 7.0	12	14.2	_	eight 39 8.3		- васк /А		-Side /A		/A
00	1.0		UUT Highes					N,	/^		/
Buildin	g Code	TPT	Test Crit		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	_		ICC-ES AC	c156 04/	1 5 2.0	2 1.0		3.20	2.40	2.13	0.85
CDC.	2019		ICC-ESA	120 04/	3.2	0.0	1.5	3.20	2.40	2.13	0.85
Test Mounting De	tails:	Ţ,					2				
			O			UUT 3B	North Contraction	200	Contra -		
ARKTE		1	TAT			0	100 ACH-	-	F IF	15	
	NG	-		BUITI	MNG	-	A22 FB			25 FB	
- A	STOTE T	a dia					A23 55 A24 V		-	27 V	
				The second	1100	2					
<u>_</u>	10000		(la c	1				1			
	A THE OWNER AND						100	1			10
	RYPOS R	POS		. *		1111	A=0	A DESIGN		-0	
	S.F.	12		2		the methy tax offer over	A AND A AND A	THE REFE.	Table Construction		
			67		A DESCRIPTION OF			(Charles of	non		
	the second second					YPOS	5	RY	POS		
	742	-				YPOS	-		POS		

UUT 3B was installed onto a mounting frame and secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts, washers, and lock washers. The fixture was wall mounted - rigid to the shake table with four(4) 1"-8 bolts, torqued to 220ft-lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200167-CR-001-R0



Model Number: 970-00 Product Construction Summa ECU Enclosure: 0.090" thick a Options/Subcomponent Sum PCB (Surface Mount Technolo	022-00-00 Iry: uminum all mary: gy Version)	HED FO		DECO	<u>Serial Nu</u>		18069013			<u></u>
Product Construction Summo ECU Enclosure: 0.090" thick a Options/Subcomponent Sum PCB (Surface Mount Technolo	mary: gy Version)	HED FO	RCO	DECO			18069013	3		
ECU Enclosure: 0.090" thick a Options/Subcomponent Sum PCB (Surface Mount Technolo	uminum all mary: gy Version)	HED FO	RCO		ONIS					
Options/Subcomponent Sum PCB (Surface Mount Technolo	mary: gy Version)	HED FO	RCO		OMPL	_				
PCB (Surface Mount Technolo	gy Version)	HED FO	R CO		OMIS	-				
PCB (Surface Mount Technolo	gy Version)	HED FO	R CO		OMS	_				
PCB (Surface Mount Technolo	gy Version)	TED FO	R CO		ONIS	_				
		HED FO	R CO		OMB					
	Dim	TED FO	R CO		ONIS					
	Dim	NED FO	UUT Pro		Mp	_				
	Dim	NEP .	UUT Pro							
	Dim		UUT Pro							
	Dim					V				
Weight	1 / 1	nension (in)	a Maria Marani in			Lowes	t Natural	Frequen	cy (Hz)	
(lb) Depth	8	Width		ight 39	Front	-Back	Side	-Side	Ver	tical
60 7.0		14.2	28			/A	N,	/A	N	/A
		UUT Highest I							1	T
Building Code		Test Criter	ia	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC 2019		ICC-ES AC1	56 04/	15/202	2 1.0	1.5	3.20	2.40	2.13	0.85
T	Z			3.2	0.0	5				
Test Mounting Details:					ARRA.	N/				
A COLORED OF COLORED O		O WAR		Clu .		i formation	UL	JT 4A	ALARINE MARKED	1111
	lecia	1/1/		ST.	COV			CONTRACT		
	CULA	ARTICAL	BUILS	DING	ia il	A28 FB	il	A31 FB		
		Station of the				A29 SS A30 V		A32 SS A33 V		
And the second										
		120	1		2 A			1		
	HA 1		1		1			1	$ \wedge$	
10-1-50	E//.	1						-		
		211			Execution Contract Contract		Destroyers Ca	entral Liner To bert' Get Rener	9	
	1	1-		-		-				
								06.29.2		

UUT 4A was installed onto a mounting frame and the secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts torqued to 25ft-lbs. The wall fixture was mounted to four(4) Mason SLRSO-B-450 isolators using four(4) 1/2" - 13 Grade 5 bolts, washers, and lock washers. Each isolator was mounted to the shake table with four(4) 5/8" - 11 Grade 5 bolts with lock and flat washers, for a total of sixteen(16) 5/8" - 11 Grade 5 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



Manufacturer:	Rypos, Inc.					
Model Line:	Filter Module and Electronic Control	Units				UT 4/
Model Number:	970-0022-00-00	Seria	al Number	r: 1806901	.3	
solator Details:						
M M	ASON INDUSTRIES, Inc. Manufacturers of Vibration Control Products	JOB NAME			- 01	
	Manufacturers of Vibration Control Products 350 Rabro Drive 2101 W. Crescent Ave., Suite D	CUSTOMER			_ JL	'K20
Ha	uppauge, NY 11788 Anaheim, CA 92801 631/348-0282 714/535-2727	CUSTOMER P.O.			1"	DEFLECTION
	FAX 631/348-0279 FAX 714/535-5738 fo@Mason-Ind.com Info@MasonAnaheim.com	MASON M.t.			- SEI	B, 1, 2 & 4 RIES SPRING
	www.Mason-Ind.com	DWG. NO.			_	MOUNTS
	Holes unless otherwise	TYPE SLRSO RAT	TINGS			
requested	E			ated Spring	Max. Horiz.	
Vertical Lin Out of con	nit Stops-	Size		(in) (lb/in)	Housing G Rating	Spring Color
during nor operation	mal	SLRSO-B-65	65/2	10 31	21.6	Brown
opuration	Adjustment Bolt	P_SLRSO-8-85		10 40 00 57	16.5 12.2	Wht/Blk Silver
TR	ubber MBD -Max	SLRSO-B-150 SLRSO-B-280	150 2	00 75 .60 174	9.3 5.0	Orange Green
S	nubbing Bolt Diameter	SLRSO-B-450	450 1	.31 344	3.1	Red
	ower III B RY: Moha	SLRSO-B-750		.12 670 1.00 1000	1.9 1.4	White Blue
I R	estraining S	SLRSO-1-1000	1000 1	.00 1000	4.4	Black
	ut la	SLRSO-1-1350 SLRSO-1-1750		.00 1350 .00 1750	3.3	Yellow Black*
	HCL	04/ SLRS0-1-2100 SLRS0-1-2385		.00 2100 .00 2385	2.1	Yellow* Yellow**
	HCW Steel Housing	SLRSO-1-2650	2650 1	.00 2650	1.7	Red*
Non-Skid Pad is use	W. The state of th	SLRSO-1-2935 SLRSO-2-3500		.00 2935	1.5	Red** Black*
in Non-Se	ismic zones only. Cup	SLRSO-2-4200	4200 / 1	.00 4200	1.5	Yellow*
seismic zo	ad prior to installing in mes. Reduce published Baseplate must be	SLRSO-2-4770 SLRSO-4-5400		00 4770	1.3	Yellow** Yellow
height by	1/8" if pad is removed. uniformly supported	SLRSO-4-7000 SLRSO-4-8400		.00 7000 .00 8400	1.6 1.3	Black* Yellow*
	AD	SLRSO-4-9540	9540 1	.00 9540	1.2	Yellow**
SPRING D	pring Free Ratio Ratio	SLRSD-4-10600 SLRSD-4-11740		1.00 10600 1.00 11740	1.1 0.9	Red* Red**
Size	OD Height K,/K, OD/OH	* with RED inner	spring ** v	with GREEN in	ner spring	
	23/8 4 0.70-0.80 0.80 - 1.25 27/8 41/8 0.90-1.10 0.92					
	10 410 0.00 1.10 0.0E					
Illustration s	shows SLRSO-B housing which contains one (1)	TYPE SLRSO DIM				1
(1) C spring	ot shown is SLRSO-1 housing which contains one , SLRSO-2 housing which contains two (2) C	Size L SLRSO-B 81/2	W H	the second s		D E
springs and	SLRSO-4 which contains four (4) C springs.	SLRSO-1 91/2	51/4 83/4	3/8 5/8 31	12 7 1/2	5/8 13/8
All springs h rated deflect	ave an additional travel to solid equal to 50% of the tion.	SLRSO-2 14 SLRSO-4 133/4	51/4 83/4 8 83/4			5/8 13/8 7/8 13/8
	d ratings expressed in G's are based on tests with bolte	d				
connections	to steel top and bottom.					

2200167-CR-001-R0



Manufacturer: Model Line:	Rypos, In Filter Mo		d Electronic C	optrolle					U		B
Model Line: Model Number:			a Electronic C	ontrol Unit		Serial N		1000001		•••	
Product Construc	970-0022					Serial N	umber:	18069013	3		
ECU Enclosure: 0.	-		llov (5052-H31))							
Leo Eliciosare. 0.	550 thick atom	iniuni a	109 (3032-1132	-)							
Options/Subcom	onent Summa	ry:									
PCB (Surface Mou		-)								
				RCO	DFC						
			OFL			Ms					
			NEL			<u>N</u>					
				UUT Pr	operties		Z			<i>(</i>)	
Weight	Danath	Di	mension (in)	nep.	0520	_		st Natural		1	
(lb) 60	Depth 7.0	12	Width 14.2		ight 39 8.3		- Back /A		-Side		tical
60	1.0		UUT Highest						/A	IN IN	/A
Buildin	g Code	P	Test Crite		S _{DS} (g)	z/h	I I _P	Any u (g)	Anic u (g)	A _{FLX-V} (g)	
	-				1 5 2.0	1.0					
CBC	2019		ICC-ESACI	156 04/	3.2	0.0	1.5	3.20	2.40	2.13	0.85
Test Mounting De	tails:	E.		11112 +	FREE	39999	2		-		-
			SUBAR					Sec. 1	UT 4B	-	
ARK			PALE			0			UT 4B		
TEST	NIC		A A	RIT	TRIG	G	A22 FR	1	AZS		
	Elle a			DOIL	DIVIC		A23 55		AZ	555 7 V	
Car			The second	5			A HARD		111		
		178		4							
					1000						<u></u>
-2 21		1000		10	1000		1	1	and the		N
-2		05									
	RYPOS RYP		112	20		the second the second		A		0	
	RYBOS AVE	2		2		hanger tantered				O H	
	N?	2		2		POS		RYF	POS		

UUT 4B was installed onto a mounting frame and secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts, washers, and lock washers. The fixture was wall mounted - rigid to the shake table with four(4) 1"-8 bolts, torqued to 220ft-lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200167-CR-001-R0



Manufacturer:	Rypos, Inc	c.								· ^
Model Line:	Filter Mod	lule and Electronic	Control Un	its				U	UT 5	A
Model Number:	970-0022-	-00-01			Serial Ni	umber:	1636966	8		
Product Construc	tion Summary:									
ECU Enclosure: 0.	090" thick alum	inum alloy (5052-H	32)							
Options/Subcom		-								
PCB (Through-Ho	le Technology V	'ersion)								
		5	DR CC	DDEC						
		DF		VIVIVIV	Ms					
		NE								
				roperties		Z		_	<i></i> .	
Weight (lb)	Denth	Dimension (in		.0520			1	Frequen		4 ¹ 1
	Depth	Width		eight 39		-Back		-Side		tical
60	7.0	14.2		28.3	10000	/A	N	I/A	N	/A
Duildin	a Cada	Test Crit		Seismic Run			a (-)	a (-)	A (-)	
Buildin	ng Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2019	ICC-ES AG	C 1 56 04	/15/202 3.2	2 0.0	1.5	3.20	2.40	2.13	0.85
Test Mounting De	stails.		*****	3.2	0.0	6				
rest mounting be					ARRY .					
		Op.			UUT	5A	1	1		
	(Dis	VIA			00	A14.85	1000		TR	
- 11 -	7 61	and the	BUI	DING		444.10			8K #	
		The second second			10					
1.		The second	Terrare and		1000	-	1000	1.1.1.1.1	K	
		ALC: NOT THE OWNER	199		1 U	1	19		TLA	
	1 121		in Sta		A 100.	ATTACK OF	AT	ATT A	10	
		13-	-	5 12	RYP	205	RY	POS	11.	
No. of Lot, No.	-	- and -			1000	and the second se	(interest		100	
And and a second second	1		1		-1	10 1		State of		
and the second second	Jan	and the second second				1000	A STREET		T	

UUT 5A was installed onto a mounting frame and the secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts torqued to 25ft-lbs. The wall fixture was mounted to four(4) Mason SLRSO-B-450 isolators using four(4) 1/2" - 13 Grade 5 bolts, washers, and lock washers. Each isolator was mounted to the shake table with four(4) 5/8" - 11 Grade 5 bolts with lock and flat washers, for a total of sixteen(16) 5/8" - 11 Grade 5 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



anufacturer:	Rypos, Inc.							
odel Line:	Filter Module ar	nd Electronic Control	Units				U	UT 5/
odel Number:	970-0022-00-01		Serie	al Numb	er: 1	636966	58	
olator Details:								
	ASON INDU	STRIES, Inc.	JOB NAME				- 01	DCO
	350 Rabro Drive 21	01 W. Crescent Ave., Suite D	CUSTOMER				_ JL	.RSO
	lauppauge, NY 11788 631/348-0282 FAX 631/348-0279	Anaheim, CA 92801 714/535-2727 FAX 714/535-5738	CUSTOMER P.O.				- 1"	DEFLECTION B, 1, 2 & 4
		fo@MasonAnaheim.com	DWG. NO.				- SE	RIES SPRING MOUNTS
				2			1	1
requeste	imit Stops-	E H	Size				Max. Horiz. Housing G Rating	Spring Color
during no operation	rmal	Adjustment S	SLRSO-B-65 SLRSO-8-85 SLRSO-8-115	65 85 115	2.10 2.10 2.00	31 40 57	21.6 16.5 12.2	Brown Wht/Blk Silver
Tr	Rubber	MBD -Max	SLRSO-B-150 SLRSO-B-280		2.00	75 174	9.3 5.0	Orange Green
	Snubbing Collar	Bolt Diameter	SLRSO-B-450	450	1.31	344 670	3.1	Red
	Lower	BY: Moha	02100-0-1000	1000	1.00	1000	1.4	Blue
	Restraining Nut		SLRSO-1-1000 SLRSO-1-1350	1000 1350	1.00	1000 1350	4.4 3.3	Black Yellow
י	160	HCL	04/ SLRS0-1-1750 SLRS0(1-2100 SLRS0-1-2385	1750 2100	1.00	1750 2100	2.5 2.1	Black* Yellow*
	HCW	Steel	SLRSO-1-2385 SLRSO-1-2650	2385	1.00	2385 2650	1.9 1.7	Yellow** Red*
Non-Skid Pad is us		Housing	SLRSO-1-2935 SLRSO-2-3500	2935	1.00	2935 3500	1.5	Red** Black*
in Non-Se	eismic zones only. pad prior to installing in	Neoprene Acoustical	SLRSO-2-4200 SLRSO-2-4770	4200	1.00	4200 4770	1.5	Yellow* Yellow**
seismic z	ones. Reduce published 1/8" if pad is removed.	Baseplate must be uniformly supported	SLRSO-4-5400	5400	1.00	5400	2.0	Yellow
neight by	no il paulo removed.	Sinton in supported	SLRSO-4-7000 SLRSO-4-8400	7000 8400	1.00	7000 8400	1.6 1.3	Black* Yellow*
SPRING	DATA	BU	SLRSO-4-9540 SLRSO-4-10600	9540 10600		9540 0600	1.2 1.1	Yellow** Red*
Size	Spring Free Ratio OD Height K,/K,	Ratio OD/OH	SERSO-4-11740	11740		1740	0.9	Red**
В	23/8 4 0.70-0.80	0 0.80 - 1.25	* with RED inner s	spring *	with GN	CEN IN	ner spring	
L C	27/8 41/8 0.90-1.10	0.92						
Illustration	shows SLRSO-B housing	which contains one (1)	Size L			MBD HC	W HCL	DE
(1) C sprin	Not shown is SLRSO-1 hou g, SLRSO-2 housing which d SLRSO-4 which contains	n contains two (2) C	SLRSO-B 81/2	41/4 83	4 3/8	5/8 23	14 7	1/2 11/8
	have an additional travel to		SLRSO-1 91/2 SLRSO-2 14 SLRSO-4 133/4	51/4 83	4 3/8		/2 12 1/4	5/8 13/8 5/8 13/8 7/8 13/8
	ad ratings expressed in G's is to steel top and bottom.	are based on tests with bolte	be					
connection	is to steel top and bottom.							

2200167-CR-001-R0



Model Line: Filter Module and Electronic Control Units Model Number: 970-0022-00-01 Serial Number: 16369668 Product Construction Summary: ECU Enclosure: 0.090" thick aluminum alloy (5052-H32) Serial Number: 16369668 Options/Subcomponent Summary: PCB (Surface Mount Technology Version) UUT Properties Version Weight Dimension (in) Lowest Natural Frequence Side-Side Weight Dimension (in) Lowest Natural Frequence Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Lowest Natural Side Side ArtxH (g)		
Product Construction Summary: ECU Enclosure: 0.090" thick aluminum alloy (5052-H32) Options/Subcomponent Summary: PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight Dimension (in) Lowest Natural Freque (Ib) Depth Width Height Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps (g) 2/h Ip Aruse (g) Ar		
ECU Enclosure: 0.090" thick aluminum alloy (5052-H32) Options/Subcomponent Summary: PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight Dimension (in) Lowest Natural Frequ (lb) Depth Width Height Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sp5 (g) Z/h Ip AFLX-H (g) ARIG-H (BC 2019 CC-ESAC156 2.0 1.0 15 3.20 2.4		
Options/Subcomponent Summary: PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight (lb) Lowest Natural Frequ Options/Subcomponent Summary: PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight (lb) Depth Width Stepse 28.3 N/A N/A OUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information AFLK.H (g) ARIG-H Building Code Test Criteria Sps (g) Z/h Ip AFLK.H (g) ARIG-H CBC 2019 ICCESAC156 2.0 1.0 1.5 3.20 2.4		
PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight (lb) Dimension (in) Lowest Natural Frequence 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information ARIG-H Building Code Test Criteria Sps (g) Z/h Ip ARIG-H		
PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight (lb) Dimension (in) Lowest Natural Frequence 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information ARIG-H Building Code Test Criteria Sps (g) Z/h Ip ARIG-H		
PCB (Surface Mount Technology Version) UUT Properties UUT Properties Weight Dimension (in) Lowest Natural Frequence (lb) Depth Width Height Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information 60 Test Criteria Sps (g) Z/h Ip A _{FLX-H} (g) A _{RIG-H} CBC 2019 ICCES AC156 0/1-2.0 1.0 15 3.20 2.4		
UUT Properties Weight (lb) Dimension (in) Lowest Natural Frequence Operation Width Height 39 Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps (g) Z/h Ip AFLX-H (g) ARIG-H CBC 2019 ICC-ESAC156 01/22.0 1.0 15 3.20 2.4		
UUT Properties Weight (lb) Dimension (in) Lowest Natural Frequence Operation Width Height 39 Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps (g) Z/h Ip AFLX-H (g) ARIG-H CBC 2019 ICC-ESAC156 01/22.0 1.0 15 3.20 2.4		
UUT Properties Weight (lb) Dimension (in) Lowest Natural Frequence (lb) Depth Width Height 39 Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps (g) Z/h Ip AFLX-H (g) ARIG-H CBC 2019 ICC-ESAC156 0/(22.0) 1.0 15 3.20 2.4		
UUT Properties Weight (lb) Dimension (in) Lowest Natural Frequence Operation Width Height 39 Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps (g) Z/h Ip AFLX-H (g) ARIG-H CBC 2019 ICC-ESAC156 0/(22.0) 1.0 15 3.20 2.4		
Weight (lb) Dimension (in) Lowest Natural Frequencies Operation Width Height 39 Front-Back Side-Side 60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps (g) Z/h Ip A _{FLX-H} (g) A _{RIG-H}	(
(lb)DepthWidthHeight 39Front-BackSide-Side607.014.228.3N/AN/AUUT Highest Passed Seismic Run InformationBuilding CodeTest CriteriaS _{DS} (g)Z/hIpA _{FLX-H} (g)A _{RIG-H} CBC 2019ICC-ESAC1560/(122.0)1.0153.202.4		
60 7.0 14.2 28.3 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria S _{DS} (g) Z/h Ip A _{FLX-H} (g) A _{RIG-H} CBC 2019 ICC-ES AC156 0/(100) 1.0 1.5 3.20 2.4		rtical
UUT Highest Passed Seismic Run Information Building Code Test Criteria S _{DS} (g) Z/h Ip A _{FLX-H} (g) A _{RIG-H} CBC 2019 CC-ESAC156 0/(152-0) 1.0 15 3.20 2.4		I/A
CBC 2019		<u>.</u>
$(B(2))$ (C_{+}) $(C_{+$	(g) A _{FLX-V} (g)	A _{RIG-V} (
	0 2.13	0.85
Test Mounting Details:		
	1 TO	1
	->0	
BUILD ALL ALL ALL ALL ALL ALL ALL ALL ALL A	2	
	De	
	P PA	
	10	
	e a	
RYPOS RYPOS		
	14.0	

UUT 5B was installed onto a mounting frame and secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts, washers, and lock washers. The fixture was wall mounted - rigid to the shake table with four(4) 1"-8 bolts, torqued to 220ft-lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

Rypos, Inc.

ECU Enclosure: 0.090" thick aluminum alloy (5052-H32)

970-0022-00-01

Filter Module and Electronic Control Units

2200167-CR-001-R0

Product Construction Summary:

Manufacturer:

Model Number:

Model Line:



COMPLIANCE

UUT 6A

	nponent Summa	-									
PCB (Through-He	ole Technology V	/ersion)									
			NED FO	OR CO	DECO	Mp					
		L		UUT Pro	perties		T				
Weight		Din	nension (in)	An West Marsell		Lowest Natural Frequency (Hz)					
(lb)	Depth			Front	-Back	k Side-Side		Ver	tical		
60	7.0		14.2	28	3.3	N,	/A	N/A		N	/A
			UUT Highes	t Passed Se	ismic Run	Informa	tion				
Buildi	ng Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2019		ICC-ESAC	150 04/	152.000	2 1.0	1.5	3.20	2.40	2.13	0.85
	. 2015			150 04/	3.2	0.0	1.5	3.20	2.40	2.13	0.05
Test Mounting D	etails:	F					20				

Serial Number:

16459739



UUT 6A was installed onto a mounting frame and the secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts torqued to 25ft-lbs. The wall fixture was mounted to four(4) Mason SLRSO-B-450 isolators using four(4) 1/2" - 13 Grade 5 bolts, washers, and lock washers. Each isolator was mounted to the shake table with four(4) 5/8" - 11 Grade 5 bolts with lock and flat washers, for a total of sixteen(16) 5/8" - 11 Grade 5 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



Manufacturer:	Rypos, Inc.		
Model Line:	Filter Module and Electronic Control L	Jnits	UUT 6A
Model Number:	970-0022-00-01	Serial Number: 16459739	
solator Details:			
5	MASON INDUSTRIES, Inc. Manufacturers of Vibration Control Products	JOB NAME	- CI DCA
	350 Rabro Drive 2101 W. Crescent Ave., Suite De	CUSTOMER	- JLKJU
	Hauppauge, NY 11788 Anaheim, CA 92801 631/348-0282 714/535-2727	CUSTOMER P.O.	1" DEFLECTION B, 1, 2 & 4
	FAX 631/348-0279 FAX 714/535-5738 Info@Mason-Ind.com Info@MasonAriaheim.com	MASON M.I.	SERIES SPRING MOUNTS
	www.Mason-Ind.com	DWS NO.	
"D" Tap reques	- 4 Holes unless otherwise E	TYPE SLRSO RATINGS	
	Limit Stops-	Rated Rated Spring Capacity Defl. Constant	Max. Horiz. Housing Spring
Out of c	contact,	Size (lb) (in) (lb/in)	G Rating Color
during r operation	Adjustment	- SLRSO-B-65 65 2.10 31 SLRSO-B-85 85 2.10 40	21.6 Brown 16.5 Wht/Blk
	Bolt	SLRSO-B-115 115 2.00 57	12.2 Silver
	Rubber MBD -Max	SLRSO-B-150 150 2.00 75 SLRSO-B-280 280 1.60 174	9.3 Orange 5.0 Green
	Snubbing Bolt Mohan	SLRS0@1450 450 1.31 344	3.1 Red
	Lower	SLRSO-B-750 750 1.12 670 SLRSO-B-1000 1000 1.00 1000	1.9 White 1.4 Blue
	Restraining	SLRSO-1-1000 1000 1.00 1000	4.4 Black
	Nut 0	4/1 SUBSO-11350 SLRSO-1-1750 1350 1.00 1350 1750 1.00 1750	3.3 Yellow 2.5 Black*
	T1 HCL	SLRSO-1-2100 2100 1.00 2100	2.1 Yellow*
J	K Steel	SLRSO-1-2385 2385 1.00 2385	1.9 Yellow**
Non-Sk	Housing	SLRSO-1-2650 2650 1.00 2650 SLRSO-1-2935 2938 1.00 2935	1.7 Red* 1.5 Red**
Pad is	used Neoprene Acoustical	SLRSO-2-3500 3500 1.00 3500	1.8 Black*
	Seismic zones only. e pad prior to installing in	SLRSO-2-4200 4200 1.00 4200 SLRSO-2-4770 4770 1.00 4770	1.5 Yellow* 1.3 Yellow**
seismic	zones. Reduce published Baseplate must be	SLRSQ-4-5400 5400 1.00 5400	2.0 Yellow
height i	by 1/8" if pad is removed. uniformly supported	SLRSO-4-7000 7000 1.00 7000 SLRSO-4-8400 8400 1.00 8400	1.6 Black* 1.3 Yellow*
	501	SLRSO-4-9540 9540 1.00 9540	1.2 Yellow**
SPRIN	G DATA	SLRSO-4-10600 10600 1.00 10600 SLRSO-4-11740 11740 1.00 11740	1.1 Red* 0.9 Red**
Size	OD Height K,/K, OD/OH		
В	23/8 4 0.70-0.80 0.80 - 1.25	* with RED inner spring ** with GREEN inn	erspring
c	27/8 41/8 0.90-1.10 0.92		
Illuctuation	on shows SLRSO-B housing which contains one (1)	TYPE SLRSO DIMENSIONS (inches)	
B spring	. Not shown is SLRSO-1 housing which contains one	Size L W H T MBD HC	the second s
(1) C springs	ring, SLRSO-2 housing which contains two (2) C and SLRSO-4 which contains four (4) C springs.	SLRSO-B 81/2 41/4 83/4 3/8 5/8 23/ SLRSO-1 91/2 51/4 83/4 3/8 5/8 31/	
	gs have an additional travel to solid equal to 50% of the	SLRSO-2 14 51/4 83/4 3/8 5/8 31/	2 12 1/4 5/8 1 3/8
rated de	flection.	SLRSO-4 133/4 8 83/4 3/8 3/4 61/	4 11 7/8 13/8
41400000 A. DO	load ratings expressed in G's are based on tests with bolte	d	

2200167-CR-001-R0



Manufacturer:	Rypos, Inc.								11	UT 6	D
Model Line:	Filter Mod	Filter Module and Electronic Control Units							U		D
Model Number:		970-0022-00-01					ımber:	16459739	9		
Product Construc											
ECU Enclosure: 0.0)90" thick alum	inum al	lloy (5052-H3	32)							
Options/Subcomp	onent Summa										
PCB (Surface Mou)								
,	0,		,								
				DR CO	DFC						
			OF			Ms,					
			NEL								
Weight		Di	moncion (in)		operties		Town	+ Natural	Fraguan	c) (Ц7)	
(lb)	Depth	Dimension (in) Width			ight 39	Front-Back		t Natural Frequen Side-Side		Vertical	
60	7.0	18	14.2	28.3		N/A		N/A		N/A	
·			UUT Highes	st Passed Se	ismic Run						,
Building Code			Test Criteria S _{DS} (§		S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC 2019			ICC-ESAC156 04/15		152.002	2 1.0	15	3.20	2.40	2.13	0.85
					3.2	0.0					
Test Mounting De	tails:	Ĩ.					2				
			ON			A A	N/S	υυτ	6B 🏭		1
and the second second	and and and	-	TAIL			COM	PP 1	ALC: NO		- 0	
213 L			A	BLITIE	TNG		A16/8 A17 55	111	A1916 A20.55 A21 V	60	
Summer of				a strange of the last		APRIL L	ALAV	111		1000	
		-			14			12.14	1000	1975	
1 NB			1.00	10.1		1110		78 7		K	
and the second s			COLUMN I	STATISTICS.		111		2 2 2		L.e	1
and the second se	States and	9		A DECK			2 0		A=0	Ke	
-	and the second se			Contraction of the local division of the loc			100 C	And Personnelling	ALCOHOL: N		
				1000	R	YPOS		DVDOG	100		
			-	-	4	YPOS		RYPOS	-		-
		1				YPOS		RYPOS	-	1	

UUT 6B was installed onto a mounting frame and secured to the test fixture with sixteen(16) 5/16" - 18 Grade 8 bolts, washers, and lock washers. The fixture was wall mounted - rigid to the shake table with four(4) 1"-8 bolts, torqued to 220ft-lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.