


MATERIAL DECLARATION SHEET



Material Number	PEC11S-929K-S0015			
Product Line	Encoder			
Compliance Date	2010-02-01			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Shaft	Zinc casting	0.582	Zinc	7440-66-6	95.9374	14.69	15.31
				Cadmium	7440-43-9	0.0004	<0.0001	
				Copper	7440-50-8	0.001	0.00015	
				Iron	7439-89-6	0.002	0.0003	
				Indium	7440-74-6	0.0005	<0.0001	
				Magnesium	7439-95-4	0.05	0.008	
				Nickel	7440-02-0	0.001	0.00015	
				Lead	7439-92-1	0.002	0.0003	
				Silicon	14464-46-1	0.005	0.0008	
				Tin	7440-31-5	0.0005	<0.0001	
				Tantalum	7440-25-7	0.0002	<0.0001	
Aluminum	7429-90-5	4	0.61					
2	Bushing	Zinc Casting	1.760	Zinc	7440-66-6	95.9374	44.43	46.31
				Cadmium	7440-43-9	0.0004	0.0002	
				Copper	7440-50-8	0.001	0.0005	
				Iron	7439-89-6	0.002	0.0009	
				Indium	7440-74-6	0.0005	0.0002	
				Magnesium	7439-95-4	0.05	0.02	
				Nickel	7440-02-0	0.001	0.0005	
				Lead	7439-92-1	0.002	0.0009	
				Silicon	14464-46-1	0.005	0.002	
				Tin	7440-31-5	0.0005	0.0002	
				Tantalum	7440-25-7	0.0002	<0.0001	
Aluminum	7429-90-5	4	1.85					

MATERIAL DECLARATION



3	C clip	Steel wire	0.009	Carbon	7440-44-0	0.827	0.0019	0.024
				Silicon	14464-46-1	0.313	0.0007	
				Manganese	7439-96-5	0.46	0.0011	
				Phosphorus	7723-14-0	0.009	<0.0001	
				Sulfur	7704-34-9	0.003	<0.0001	
				Cobalt	7440-48-4	0.01	<0.0001	
				Iron	7439-89-6	98.378	0.233	
4	Actuator	Nylon 46	0.011	Polyhexamethylene adipamide	50327-77-0	100	0.029	0.029
5	Leaf spring	Phosphor bronze	0.132	Tin	7440-31-5	8.45	0.29	3.47
				Phosphorus	7723-14-0	0.09	0.003	
				Lead	7439-92-1	0.003	0.0001	
				Zinc	7440-66-6	0.004	0.0001	
				Iron	7439-89-6	0.002	0.0001	
				Copper	7440-50-8	91.44	3.18	
6	Rotor	Nylon 46	0.135	Polyhexamethylene adipamide	50327-77-0	100	3.55	3.55
7	Contact roller	Phosphor bronze with silver plating (0.5~1 um)	0.015	Tin	7440-31-5	8.45	0.033	0.39
				Phosphorus	7723-14-0	0.09	0.0003	
				Lead	7439-92-1	0.003	<0.0001	
				Zinc	7440-66-6	0.004	<0.0001	
				Iron	7439-89-6	0.002	<0.0001	
				Copper	7440-50-8	91.44	0.36	
				Silver plating	7440-22-4			
8	Case	Nylon 46	0.255	Polyhexamethylene adipamide	50327-77-0	100	6.71	6.71
9	terminal	Phosphor bronze with silver plating (0.5~1 um)	0.115	Tin	7440-31-5	8.45	0.26	3.03
				Phosphorus	7723-14-0	0.09	0.0027	
				Lead	7439-92-1	0.003	<0.0001	
				Zinc	7440-66-6	0.004	<0.0001	
				Iron	7439-89-6	0.002	<0.0001	
				Copper	7440-50-8	91.44	2.77	
				Silver plating	7440-22-4			
10	Switch contact	Copper/Titanium	0.018	Copper	7440-50-8	96.6	0.46	0.47

MATERIAL DECLARATION



		with silver plating (0.5~1um)		Titanium	7440-32-6	3.4	0.01	
				Silver plating	7440-22-4			
11	Spacer	Nylon 46	0.128	Polyhexamethylene adipamide	50327-77-0	100	3.37	3.37
12	Attaching plate	Tin plated steel (tin plating 5~8 um)	0.640	Carbon	7440-44-0	4	0.67	16.84
				Silicon	14464-46-1	1	0.17	
				Manganese	7439-96-5	21	3.54	
				Phosphorus	7723-14-0	13	2.19	
				Sulfur	7704-34-9	12	2.02	
				Copper	7440-50-8	1	0.17	
				Iron	7439-89-6	48	8.08	
				Tin plating	7440-31-5			
		Total weight	3.8					

This Document was updated on: February 1, 2010

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemptions: 6c – lead in copper alloys. Cadmium content in zinc alloy is <0.01% - below RoHS MCL.