


MATERIAL DECLARATION SHEET

Material Number	PEC11R			
Product Line	Encoder			
Compliance Date	Since Inception			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Materials/ Substances	CASRN If applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. [%]
1	Bushing	Zinc Alloy	1.2	Zinc	7440-66-6	94.82	27.97	29.5
				Aluminium	1344-28-1	4.16	1.23	
				Magnesium	7439-95-4	0.1	0.029	
				Copper	7440-50-8	0.9	0.265	
				Silicon	7440-21-3	0.02	0.006	
2	Bracket	SPCC-SB	0.7	Carbon	7440-44-0	1	0.18	17.147
				Manganese	7439-96-5	5	0.87	
				Phosphorus	7723-14-0	5	0.87	
				Iron	7439-89-6	88	14.96	
				Silicon	7440-21-3	1	0.18	
	Plating	0.007	Tin	7440-31-5	99.9	0.169	0.17	
			Copper	7440-50-8	0.0004	0.0000068		
			Antimony	1309-64-4	0.0136	0.000023		
			Aluminum	1344-28-1	0.00034	0.0000059		
			Iron	7439-89-6	0.0034	0.0000059		

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3	Detent Spring	Bronze (Without plating)	0.127	Copper	7440-50-8	91.44	2.85	3.11
				Tin	7440-31-5	8.45	0.26	
				Phosphorus	7723-14-0	0.09	0.0028	
				Lead	7439-92-1	0.003	0.000093	
				Zinc	7440-66-6	0.004	0.00012	
				Iron	7439-89-6	0.002	0.000062	
4	Switch Dome	Bronze	0.05	Copper	7440-50-8	91.44	1.12	1.22
				Tin	7440-31-5	8.45	0.1	
				Phosphorus	7723-14-0	0.09	0.001	
				Lead	7439-92-1	0.003	0.000037	
				Zinc	7440-66-6	0.004	0.00005	
				Iron	7439-89-6	0.002	0.000025	
		Plating	0.005	Silver	7440-22-4	100	0.12	0.12
5	Wipers	Copper-Nickel-Zinc Alloy	0.0258	Copper	7440-50-8	62	0.39	0.63
				Nickel	7440-02-0	19.15	0.12	
				Manganese	7439-96-5	0.5	0.003	
				Phosphorus	7723-14-0	0.1	0.0006	
				Zinc	7440-66-6	18	0.11	
				Iron	7439-89-6	0.25	0.0016	

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6	Switch Element & Terminals	PBT	0.185	Glass	65997-17-3	20	0.91	4.545
				Poly(butylene terephthalate)	30965-26-5	65	2.96	
				Antimony Oxide	1309-64-4	4	0.18	
				Flame Retardant	68928-70-1	10	0.45	
				Additives		1	0.045	
		Brass	0.205	Copper	7440-50-8	70	3.528	5.04
				Zinc	7440-66-6	30	1.512	
		Plating	0.02	Silver	7440-22-4	100	0.49	0.49
7	Switch Insulation Adopter	PBT	0.034	Glass	65997-17-3	20	0.17	0.835
				Poly(butylene terephthalate)	30965-26-5	65	0.54	
				Antimony Oxide	1309-64-4	4	0.033	
				Flame Retardant	68928-70-1	10	0.084	
				Additives		1	0.008	
8	C-Ring	Steel Wire	0.016	Carbon	7440-44-0	1	0.00393	0.393
				Manganese	7439-96-5	5	0.0197	
				Phosphorus	7723-14-0	5	0.0197	
				Iron	7439-89-6	88	0.346	
				Silicon	7440-21-3	1	0.00393	

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9	Code element & Terminals	PBT	0.315	Glass	65997-17-3	20	1.55	7.74
				Poly(butylene terephthalate)	30965-26-5	65	5.03	
				Antimony Oxide	1309-64-4	4	0.31	
				Flame Retardant	68928-70-1	10	0.774	
				Additives		1	0.077	
		Brass	0.155	Copper	7440-50-8	70	2.66	3.8
				Zinc	7440-66-6	30	1.14	
	Plating	0.015	Silver	7440-22-4	100	0.37	0.37	
10	Rotor	PC	0.108	Polycarbonate	25037-45-0	100	2.65	2.65
11	Shaft	Aluminum Alloy	0.9	Aluminum	1344-28-1	96	21.23	22.1
				Magnesium	7439-98-5	1.333	0.29	
				Calcium	7440-70-2	1.333	0.29	
				Silicon	7440-21-3	1.333	0.29	
12	Lube	Polysiloxane	0.00056	Polysiloxane	9011-19-2	100	0.14	0.14
		Total weight	4.06836					

This Document was updated on: August 23, 2019

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Please see RoHS Certificate of Compliance for exemptions used, if any.