


MATERIAL DECLARATION SHEET



Material number	3590S-6-xxxL			
Product Line	Non-Contacting Analog Rotary Position Sensor			
Compliance Date	2/25/2025			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Hex Nut	Brass C360	0.0819	Copper	7440-50-8	61.5	0.201	0.33
				Zinc	7440-66-6	35.4	0.1154	
				Lead	7439-92-2	3.1	0.0101	
		Plating	0.0001	Nickel	7440-02-0	100	0.0004	0.0004
2	Lockwasher	Stainless Steel 304	0.05	Carbon	7440-44-0	0.18	0.0004	0.20
				Manganese	7439-96-5	2	0.004	
				Phosphorus	7723-14-0	0.045	0.00009	
				Sulfur	7704-34-9	0.03	0.00006	
				Silicon	7440-21-3	0.75	0.0015	
				Chromium	7440-47-3	17	0.03	
				Nickel	7440-02-0	8	0.016	
				Iron	7439-89-6	71.995	0.14	
3	Epoxy	Epoxy	0.1280	Epoxy resin	2386-87-0	65	0.331	0.51
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.102	
				Aluminum trioxide	1344-28-1	10	0.051	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.018	
				Propylene carbonate	108-32-7	1.5	0.008	

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4	Housing	ShinKong compound (Blue)	3.85554	PBT	30965-26-5	49	7.52	15.35
				Glass Fiber	65997-17-3	35	5.37	
				Brominated Epoxy Resin	68928-70-1	10	1.54	
				Antimony Trioxide	1309-64-4	6	0.92	
5	T.R. Terminal x2	Copper CDA 194	0.121	Copper	7440-50-8	97.4	0.47	0.48
				Iron	7439-89-6	2.4	0.0116	
				Zinc	7440-66-6	0.15	0.0007	
				Phosphorus	7723-14-0	0.05	0.0002	
		Plating	0.004	Tin	7440-31-5	100	0.0159	0.02
		Under Plating	0.004	Copper	7440-50-8	100	0.0159	0.02
		Solder Inlay	0.002	Silver	7440-22-4	100	0.0080	0.01
		Silver Alloy	0.07	Silver	7440-22-4	45	0.1254	0.28
				Copper	7440-50-8	15	0.0418	
				Zinc	7440-66-6	16	0.0446	
Cadmium	7440-43-9			24	0.0669			
6	Mandrel Wire	Annealed Copper Wire	1.72932	Copper	7440-50-8	100	6.89	6.89
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0001	0.0001
7	Resist Wire	Nickel/Chromium Alloy	0.22	Nickel	7440-02-0	74	0.65	0.88
				Copper	7440-50-8	1	0.0088	
				Chromium	7440-47-3	21	0.18395	
				Aluminum	7429-90-5	1	0.00876	
				Silicon	7440-21-3	1	0.00876	
				Cobalt	7440-48-4	1	0.00876	
				Manganese	7439-96-5	1	0.00876	
8	Varnish	Varnish	0.052	Phenolic Resin	9003-35-4	100	0.20704	0.21
9	Collector Bar	Beryllium Copper Alloy	0.031	Beryllium	7440-41-7	1.9	0.002	0.12
				Copper	7440-50-8	97.48	0.12	

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		CA-172 alloy 25		Cobalt	7440-48-4	0.2	0.0002	
				Nickel	7440-02-0	0.2	0.0002	
				Iron	7439-89-6	0.2	0.0002	
				Lead	7439-92-1	0.02	0.00002	
		Under Plating	0.001	Nickel	7440-02-0	100	0.00398	0.004
Plating	0.001	Gold	7440-57-5	100	0.004	0.004		
10	Lube	Lubricant	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.02	0.03
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.002	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.01	
				Polyisobutylene	9003-27-4	6.2	0.002	
11	Lube	Lubricant	0.008	1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	58.8	0.019	0.03
				1-Propene, polymer with ethene	9010-79-1	30.8	0.010	
				Silica, amorphous fumed	112945-52-5	5.4	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.002	
12	Lid	ShinKong compound (Blue)	3.17515	PBT	30965-26-5	49	6.19	12.64
				Glass Fiber	65997-17-3	35	4.42	
				Brominated Epoxy Resin	68928-70-1	10	1.26	
				Antimony Trioxide	1309-64-4	6	0.76	

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13	Rotor Molded	Nylatron	3.17515	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17- 2	66	8.34	12.64
				Glass Fiber	65997-17- 3	32	4.05	
				Molybdenum Disulfide	1317-33-5	2	0.253	
14	Shaft	Brass C360	6.7928	Copper	7440-50-8	61.5	16.633	27.05
				Zinc	7440-66-6	35.4	9.574	
				Lead	7439-92-2	3.1	0.838	
		Plating	0.001	Nickel	7440-02-0	100	0.004	0.00
15	Slider Molded	Nylon	0.453592	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17- 2	60	1.08	1.81
				Glass Fiber	65997-17- 3	30	0.54	
				Polytetrafluorethylene	9002-84-0	10	0.18	
16	Contact Spring	Paliney #6	0.008	Palladium	7440-05-3	39.8	0.01	0.03
				Silver	7440-22-4	33.9	0.01	
				Copper	7440-50-8	24.2	0.008	
				Platinum	7440-06-4	0.5	0.0002	
				Nickel	7440-02-0	1.59	0.0005	
				Zinc	7440-66-6	0.01	0.000003	
17	Cover	ShinKong compound (Blue)	2.49476	PBT	30965-26- 5	49	4.87	9.93
				Glass Fiber	65997-17- 3	35	3.48	
				Brominated Epoxy Resin	68928-70- 1	10	0.993	
				Antimony Trioxide	1309-64-4	6	0.596	
18	Terminal Wiper	Phosphor Bronze CDA 510	1.428816	Lead	7439-92-1	0.05	0.003	5.69
				Zinc	7440-66-6	0.3	0.017	
				Iron	7439-89-6	0.10	0.006	
				Tin	7440-31-5	5.80	0.330	

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				Phosphorus	7723-14-0	0.35	0.020	
				Copper	7440-50-8	93.40	5.313	
19	Retaining Ring	Stainless Steel 420	0.082	Carbon	7440-44-0	0.15	0.0005	0.33
				Silicon	7440-21-3	1.00	0.003	
				Manganese	7439-96-5	1.00	0.003	
				phosphorus	7723-14-0	0.04	0.0001	
				Sulfur	7704-34-9	0.03	0.0001	
				Chromium	7440-47-3	14.00	0.046	
				Iron	7439-89-6	83.78	0.274	
				Silicon	7440-21-3	0.40	0.018	
20	Bushing	Aluminum 2011	1.1378	Iron	7439-89-6	0.70	0.032	
				Copper	7440-50-8	5.00	0.227	
				Zinc	7440-66-6	0.30	0.014	
				Misc., not to declare	Trade Secret	0.15	0.007	
				Aluminum	7429-90-5	92.93	4.210	
				Bismuth	7440-69-9	0.33	0.0147	
				Lead	7439-92-1	0.20	0.009	
		Total weight	25.1160					

This Document was updated on: 2/25/2025

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.