


# MATERIAL DECLARATION SHEET



Material number	3590S-7-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	0.277	0.45
				Zinc	7440-66-6	35.4	0.1597	
				Lead	7439-92-2	3.1	0.0140	
			Plating	0.0001	Nickel	7440-02-0	100	0.0006
2	Lockwasher	Stainless Steel 304	0.05	Carbon	7440-44-0	0.18	0.0005	0.28
				Manganese	7439-96-5	2	0.006	
				Phosphorus	7723-14-0	0.045	0.00012	
				Sulfur	7704-34-9	0.03	0.00008	
				Silicon	7440-21-3	0.75	0.0021	
				Chromium	7440-47-3	17	0.05	
				Nickel	7440-02-0	8	0.022	
				Iron	7439-89-6	71.995	0.20	
3	Epoxy	Epoxy	0.1280	Epoxy resin	2386-87-0	65	0.458	0.70
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.141	
				Aluminum trioxide	1344-28-1	10	0.070	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.025	
				Propylene carbonate	108-32-7	1.5	0.011	

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4	Housing	ShinKong compound (Blue)	3.85554	PBT	30965-26-5	49	10.40	21.23
				Glass Fiber	65997-17-3	35	7.43	
				Brominated Epoxy Resin	68928-70-1	10	2.12	
				Antimony Trioxide	1309-64-4	6	1.27	
5	T.R. Terminal x2	Copper CDA 194	0.121	Copper	7440-50-8	97.4	0.65	0.67
				Iron	7439-89-6	2.4	0.0160	
				Zinc	7440-66-6	0.15	0.0010	
				Phosphorus	7723-14-0	0.05	0.0003	
		Plating	0.004	Tin	7440-31-5	100	0.0220	0.02
		Under Plating	0.004	Copper	7440-50-8	100	0.0220	0.02
		Solder Inlay	0.002	Silver	7440-22-4	100	0.0110	0.01
		Silver Alloy	0.07	Silver	7440-22-4	45	0.1735	0.39
				Copper	7440-50-8	15	0.0578	
				Zinc	7440-66-6	16	0.0617	
Cadmium	7440-43-9			24	0.0925			
6	Mandrel Wire	Annealed Copper Wire	1.70097	Copper	7440-50-8	100	9.37	9.37
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0002	0.0002
7	Resist Wire	Nickel/Chromium Alloy	0.347	Nickel	7440-02-0	74	1.41	1.91
				Copper	7440-50-8	1	0.0191	
				Chromium	7440-47-3	21	0.401	
				Aluminum	7429-90-5	1	0.019	
				Silicon	7440-21-3	1	0.019	
				Cobalt	7440-48-4	1	0.019	
				Manganese	7439-96-5	1	0.019	
8	Varnish	Varnish	0.052	Phenolic Resin	9003-35-4	100	0.286	0.29
9	Collector Bar	Beryllium Copper Alloy	0.031	Beryllium	7440-41-7	1.9	0.003	0.17
				Copper	7440-50-8	97.48	0.17	

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		CA-172 alloy 25		Cobalt	7440-48-4	0.2	0.0003	
				Nickel	7440-02-0	0.2	0.0003	
				Iron	7439-89-6	0.2	0.0003	
				Lead	7439-92-1	0.02	0.00003	
		Under Plating	0.001	Nickel	7440-02-0	100	0.00551	0.006
Plating	0.001	Gold	7440-57-5	100	0.006	0.006		
10	Lube	Lubricant	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.02	0.04
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.003	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.01	
				Polyisobutylene	9003-27-4	6.2	0.003	
11	Lube	Lubricant	0.008	1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	58.8	0.026	0.04
				1-Propene, polymer with ethene	9010-79-1	30.8	0.014	
				Silica, amorphous fumed	112945-52-5	5.4	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.002	
12	Lid	ShinKong compound (Blue)	3.098036	PBT	30965-26-5	49	8.36	17.06
				Glass Fiber	65997-17-3	35	5.97	
				Brominated Epoxy Resin	68928-70-1	10	1.71	
				Antimony Trioxide	1309-64-4	6	1.02	

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13	Rotor/Shaft Molded	ShinKong compound (Blue)	4.12769	PBT	30965-26-5	49	11.14	22.73
				Glass Fiber	65997-17-3	35	7.96	
				Brominated Epoxy Resin	68928-70-1	10	2.27	
				Antimony Trioxide	1309-64-4	6	1.36	
14	Slider Molded	Nylon	0.453592	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	60	1.50	2.50
				Glass Fiber	65997-17-3	30	0.75	
				Polytetrafluorethylene	9002-84-0	10	0.25	
15	Contact Spring	Paliney #6	0.008	Palladium	7440-05-3	39.8	0.02	0.04
				Silver	7440-22-4	33.9	0.01	
				Copper	7440-50-8	24.2	0.011	
				Platinum	7440-06-4	0.5	0.0002	
				Nickel	7440-02-0	1.59	0.0007	
				Zinc	7440-66-6	0.01	0.000004	
16	Cover	ShinKong compound (Blue)	2.49476	PBT	30965-26-5	49	6.73	13.74
				Glass Fiber	65997-17-3	35	4.81	
				Brominated Epoxy Resin	68928-70-1	10	1.374	
				Antimony Trioxide	1309-64-4	6	0.824	
17	Terminal Wiper	Phosphor Bronze CDA 510	1.428816	Lead	7439-92-1	0.05	0.004	7.87
				Zinc	7440-66-6	0.3	0.024	
				Iron	7439-89-6	0.10	0.008	
				Tin	7440-31-5	5.80	0.456	
				Phosphorus	7723-14-0	0.35	0.028	
				Copper	7440-50-8	93.40	7.349	
18	O-Ring x2	Silicone	0.0738	Silicon Rubber	63394-02-	100.00	0.406	0.41

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		Rubber			5			
19	O-Ring	Nitrile Rubber	0.0093	Nitrile Rubber	9005-98-5	100.00	0.051	0.05
		Total weight	18.1595					

**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.