


MATERIAL DECLARATION SHEET



Material number	3590S-4-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 C260	0.0819	Copper	7440-50-8	70	0.277	0.40
				Zinc	7440-66-6	30	0.1188	
		Plating	0.0001	Nickel	7440-02-0	100	0.0005	0.0005
2	Lockwasher	Stainless Steel 304	0.05	Carbon	7440-44-0	0.18	0.0004	0.24
				Manganese	7439-96-5	2	0.005	
				Phosphorus	7723-14-0	0.045	0.00011	
				Sulfur	7704-34-9	0.03	0.00007	
				Silicon	7440-21-3	0.75	0.0018	
				Chromium	7440-47-3	17	0.04	
				Nickel	7440-02-0	8	0.019	
				Iron	7439-89-6	71.995	0.17	
3	Epoxy	Epoxy	0.1280	Epoxy resin	2386-87-0	65	0.402	0.62
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.124	
				Aluminum trioxide	1344-28-1	10	0.062	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.022	
				Propylene carbonate	108-32-7	1.5	0.009	
4	Housing	ShinKong	3.85554	PBT	30965-26-	49	9.14	18.65

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		compound (Blue)			5			
				Glass Fiber	65997-17-3	35	6.53	
				Brominated Epoxy Resin	68928-70-1	10	1.86	
				Antimony Trioxide	1309-64-4	6	1.12	
5	T.R. Terminal x2	Copper CDA 194	0.121	Copper	7440-50-8	97.4	0.57	0.59
				Iron	7439-89-6	2.4	0.0140	
				Zinc	7440-66-6	0.15	0.0009	
				Phosphorus	7723-14-0	0.05	0.0003	
		Plating	0.004	Tin	7440-31-5	100	0.0193	0.02
		Under Plating	0.004	Copper	7440-50-8	100	0.0193	0.02
		Solder Inlay	0.002	Silver	7440-22-4	100	0.0097	0.01
		Silver Alloy	0.07	Silver	7440-22-4	45	0.1524	0.34
				Copper	7440-50-8	15	0.0508	
				Zinc	7440-66-6	16	0.0542	
Cadmium	7440-43-9			24	0.0813			
6	Mandrel Wire	Annealed Copper Wire	1.72932	Copper	7440-50-8	100	8.36	8.36
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0002	0.0002
7	Resist Wire	Nickel/Chromium Alloy	0.22	Nickel	7440-02-0	74	0.79	1.06
				Copper	7440-50-8	1	0.0106	
				Chromium	7440-47-3	21	0.22345	
				Aluminum	7429-90-5	1	0.01064	
				Silicon	7440-21-3	1	0.01064	
				Cobalt	7440-48-4	1	0.01064	
				Manganese	7439-96-5	1	0.01064	
8	Varnish	Varnish	0.052	Phenolic Resin	9003-35-4	100	0.25150	0.25
9	Collector Bar	Beryllium Copper Alloy CA-172 alloy	0.031	Beryllium	7440-41-7	1.9	0.003	0.15
				Copper	7440-50-8	97.48	0.15	
				Cobalt	7440-48-4	0.2	0.0003	

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		25		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	0.00484	0.005
		Plating	0.001	Gold	7440-57-5	100	0.005	0.005
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	0.002	
				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	0.023	0.04
				1-Propene, polymer with ethene	9010-79-1	30.8	0.012	
				Silica, amorphous fumed	112945-52-5	5.4	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.002	
12	Lid	ShinKong compound (Blue)	2.49476	PBT	30965-26-5	49	5.91	12.07
				Glass Fiber	65997-17-3	35	4.22	
				Brominated Epoxy Resin	68928-70-1	10	1.21	
				Antimony Trioxide	1309-64-4	6	0.72	

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13	Rotor Molded	Nylatron	2.35868	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17- 2	66	7.53	11.41
				Glass Fiber	65997-17- 3	32	3.65	
				Molybdenum Disulfide	1317-33-5	2	0.228	
14	Shaft	Brass C360	2.234	Copper	7440-50-8	61.5	6.645	10.81
				Zinc	7440-66-6	35.4	3.825	
				Lead	7439-92-2	3.1	0.335	
		Plating	0.001	Nickel	7440-02-0	100	0.005	0.005
15	Slider Molded	Nylon	0.453592	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17- 2	60	1.32	2.19
				Glass Fiber	65997-17- 3	30	0.66	
				Polytetrafluorethylene	9002-84-0	10	0.22	
16	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	0.009	
				Platinum	7440-06-4	0.5	0.0002	
				Nickel	7440-02-0	1.59	0.0006	
				Zinc	7440-66-6	0.01	0.000004	
17	Cover	ShinKong compound (Blue)	2.49476	PBT	30965-26- 5	49	5.91	12.07
				Glass Fiber	65997-17- 3	35	4.22	
				Brominated Epoxy Resin	68928-70- 1	10	1.207	
				Antimony Trioxide	1309-64-4	6	0.724	
18	Terminal Wiper	Phosphor Bronze CDA 510	1.428816	Lead	7439-92-1	0.05	0.003	6.91
				Zinc	7440-66-6	0.3	0.021	
				Iron	7439-89-6	0.10	0.007	
				Tin	7440-31-5	5.80	0.401	

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				Phosphorus	7723-14-0	0.35	0.024	
				Copper	7440-50-8	93.40	6.455	
19	Retaining Ring	Stainless Steel 420	0.082	Carbon	7440-44-0	0.15	0.001	0.40
				Silicon	7440-21-3	1.00	0.004	
				Manganese	7439-96-5	1.00	0.004	
				phosphorus	7723-14-0	0.04	0.0002	
				Sulfur	7704-34-9	0.03	0.0001	
				Chromium	7440-47-3	14.00	0.056	
				Iron	7439-89-6	83.78	0.332	
				Aluminum	7429-90-5	4.30	0.555	
20	Bushing	Zamak Alloy #5	2.67	Copper	7440-50-8	1.25	0.161	12.91
				Magnesium	7439-95-4	0.008	0.001	
				Iron	7439-89-6	0.10	0.013	
				Lead	7440-31-5	0.005	0.001	
				Cadmium	7440-43-9	0.004	0.001	
				Tin	7439-92-1	0.003	0.0004	
				Zinc	7440-66-6	94.33	12.182	
21	O-Ring x2	Silicone Rubber	0.0738	Silicon Rubber	63394-02-5	100.00	0.357	0.36
22	O-Ring	Nitrile Rubber	0.0093	Nitrile Rubber	9005-98-5	100.00	0.045	0.04
		Total weight	20.6756					

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.