

MATERIAL DECLARATION SHEET



Material number	3590S-8-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 Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Hex Nut	Brass C260	2.3160	Copper	7440-50-8	70	8.312	11.87
				Zinc	7440-66-6	30	3.5621	
2	Lock Washer	Carbon Steel C1050	0.30	Carbon	7440-44-0	0.5	0.0078	1.56
				Iron	7439-89-6	98.7	1.5428	
				Manganese	7439-96-5	0.75	0.0117	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.0005	
		Plating	0.0001	Nickel	7440-02-0	100	0.0005	0.0005
3	Lid	Resin	1.22	PBT	26062-94-2	57	3.57	6.25
				Glass Fiber	65997-17-3	30	1.88	
				Antimonytrioxide	1309-64-4	3	0.19	

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				ISO 1043-4 FR (17) Aromatic Brominated Compounds (Excluding Brominated Diphenyl Ether and Biphenyls) in Combination with Antimony Compounds, Not Declarable	Proprietary	9	0.56	
				Additives, Not to Declare	Proprietary	1	0.06	
4	Bushing	Aluminum 2011	1.041	Aluminum (Metal)	7429-90-5	92.93	4.96	5.34
				Bismuth	7440-69-9	0.4	0.02	
				Copper	7440-50-8	5.5	0.29	
				Iron	7439-89-6	0.345	0.02	
				Lead	7439-92-1	0.4	0.0213	
				Silicon	7440-21-3	0.2	0.0107	
				Zinc (Metal)	7440-66-6	0.15	0.0080	
				Misc, Not to Declare	Proprietary	0.075	0.00	
		Plating	0.0001	Nickel	7440-02-0	100	0.0005	0.0005
5	Housing	Resin	3.1	PBT	26062-94-2	53.7	8.53	15.89
				Glass Fiber	65997-17-3	30	4.77	
				Brominated Epoxy Resin	68928-70-1	10.5	1.67	
				Antimony Trioxide	1309-64-4	3	0.48	
				Pigment Blue 15	147-14-8	0.8	0.13	
				Further Additives, not to Declare	Proprietary	2	0.32	
6	Mandrel Wire	Annealed Copper Wire	1.22	Copper	7440-50-8	100	6.25	6.25
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0002	0.0002
7	Resist Wire	Nickel/	0.22	Nickel	7440-02-0	74	0.83	1.13

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		Chromium Alloy		Copper	7440-50-8	1	0.0113	
				Chromium	7440-47-3	21	0.23686	
				Aluminum	7429-90-5	1	0.01128	
				Silicon	7440-21-3	1	0.01128	
				Cobalt	7440-48-4	1	0.01128	
				Manganese	7439-96-5	1	0.01128	
8	Varnish	Hi-Thermo BC-346A	0.052	Alkyd Resin	63148-69-6	99.5	0.26526	0.27
				Misc, Not to Declare	Proprietary	0.5	0.001	
9	T.R. Terminal X2	Copper CDA 194	0.121	Copper	7440-50-8	97.5	0.60	0.62
				Iron	7439-89-6	2.3	0.0143	
				Zinc (metal)	7440-66-6	0.1	0.0006	
				Lead	7439-92-1	0.01	0.0001	
				Further additives	Proprietary	0.09	0.0006	
		Silver Alloy A56T	0.07	Silver	7440-22-4	56	0.2010	0.36
				Copper	7440-50-8	22	0.0790	
				Zinc	7440-66-6	17	0.0610	
				Tin	7440-31-5	5	0.0179	
		Plating	0.004	Tin	7440-31-5	100	0.0205	0.02
10	Shaft	Brass C360	6.505	Copper	7440-50-8	61.5	20.5103	33.35
				Iron	7439-89-6	0.2	0.06670	
				Lead	7439-92-1	3.0	1.0005	
				Zinc	7440-66-6	35	11.6725	
				Misc, Not to Declare	Proprietary	0.3	0.1001	
		Plating	0.001	Nickel	7440-02-0	100	0.0051	0.005
11	Rotor/Shaft Molded	Resin	1.01	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	3.42	5.18
				Glass Fiber	65997-17-3	32	1.66	
				Molybdenum Disulfide	1317-33-5	2	0.104	

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12	Slider Molded	Resin	0.142	Polyamide 66	32131-17-2	53	0.39	0.73
				Glass Fibers	65997-17-3	32	0.23	
				Tetrafluoroethylene Polymer	9002-84-0	13	0.09	
				Dimethylsilicone	63148-62-9	2	0.01	
13	Contact Spring	Paliney #6	0.008	Palladium	7440-05-3	44	0.02	0.04
				Silver	7440-22-4	38	0.02	
				Copper	7440-50-8	16	0.007	
				Platinum	7440-06-4	1	0.0004	
				Nickel	7440-02-0	1	0.0004	
14	Collector Bar	Beryllium Copper Alloy CA-172 alloy 25	0.031	Beryllium	7440-41-7	1.90	0.003	0.16
				Nickel	7440-02-0	0.30	0.0005	
				Cobalt	7440-48-4	0.30	0.0005	
				Iron	7439-89-6	0.30	0.0005	
				Aluminum	7429-90-5	0.10	0.0002	
				Silicon	7440-21-3	0.10	0.0002	
				Copper	7440-50-8	96.70	0.1537	
				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	Proprietary	0.25	0.0004	
		Under Plating	0.001	Nickel	7440-02-0	100	0.005	0.005
		Plating	0.001	Gold	7440-57-5	100	0.005	0.005
15	Terminal Wiper	Phosphor Bronze CDA 510	0.218	Copper	7440-50-8	94.6	1.057	1.12
				Iron	7439-89-6	0.06	0.001	
				Phosphorus	7723-14-0	0.2	0.002	
				Lead	7439-92-1	0.025	0.0003	
				Tin	7440-31-5	5.0	0.056	
				Zinc (Metal)	7440-66-6	0.1	0.001	
				Misc., Not to Declare	Proprietary	0.025	0.0003	
		Plating	0.002	Gold	7440-57-5	100.00	0.010	0.01
		Under Plating	0.002	Nickel	7440-02-0	100.00	0.010	0.01

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16	Cover	Resin	1.365	PBT	26062-94-2	53.7	3.76	7.00
				Glass Fiber	65997-17-3	30	2.10	
				Brominated Epoxy Resin	68928-70-1	10.5	0.73	
				Antimony Trioxide	1309-64-4	3	0.21	
				Pigment Blue 15	147-14-8	0.8	0.056	
				Further Additives, Not to Declare	Proprietary	2	0.140	
17	Retaining Ring	Stainless Steel 420	0.067	Carbon	7440-44-0	0.3	0.001	0.34
				Chromium	7440-47-3	13	0.045	
				Iron	7439-89-6	85.66	0.294	
				Manganese	7439-96-5	0.5	0.002	
				Phosphorus	7723-14-0	0.02	0.0001	
				Sulphur	7704-34-9	0.02	0.0001	
				Silicon	7440-21-3	0.5	0.002	
18	O-Ring X2	Silicone Rubber	0.0738	Silicon Rubber	63394-02-5	100.00	0.378	0.38
19	O-Ring	Nitrile Rubber	0.0093	Nitrile Rubber	9005-98-5	100.00	0.048	0.05
20	Lube	Lube	0.09	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.4	0.25	0.46
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.026	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.16	
				Polyisobutylene	9003-27-4	6.2	0.029	
21	Lube	Lube	0.09	1-Decene, Tetramer, Mixed with 1-Decene Trimer, Hydorgenated	68649-12-7	58.8	0.271	0.46
				1-Propene, Polymer with Ethene	9010-79-1	30.8	0.142	

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				Silica, Amorphous Fumed	112945-52-5	5.4	0.025	
				Polytetrafluoroethylene	9002-84-0	5	0.023	
22	Epoxy	UV- Epoxy	0.2200	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60	0.677	1.13
				Aluminum Oxide	1344-28-1	30	0.338	
				Silica, Amorphous Fumed	112945-52-5	10	0.113	
		Total weight	19.5052					

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Important remarks:

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