MATERIAL DECLARATION SHEET

BOURNS®

Material number	3590P-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 Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Hex Nut	Brass C260	0.0819	Copper	7440-50-8	70.00	0.271	0.39
				Zinc	7440-66-6	30.00	0.1160	
		Plating	0.0001	Nickel	7440-02-0	100.00	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	2.00	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	17.00	0.04	
				Nickel	7440-02-0	8.00	0.019	
				Iron	7439-89-6	71.995	0.17	
3	Epoxy	Epoxy	0.1280	Epoxy resin	2386-87-0	65.00	0.393	0.60
				Caprolacton, trimethylpropan polymer	37625-56-2	20.00	0.121	
				Aluminum trioxide	1344-28-1	10.00	0.060	
				Hydrophobic pyrogenic silica	112945-52-5	3.50	0.021	
				Propylene carbonate	108-32-7	1.50	0.009	
4	Housing	ShinKong	3.85554	PBT	26062-94-	53.70	9.78	18.21

		compound (Blue)			2			
				Glass Fiber	65997-17-3	30.00	5.46	
				Brominated Epoxy Resin	68928-70-1	10.50	1.91	
				Antimony Trioxide	1309-64-4	3.00	0.55	
				Pigment Blue 15	147-14-8	0.80	0.15	
				Further Additives, not to declare	N/A	2.00	0.36	
5	T.R. Terminal x2	Copper CDA 194	0.121	Copper	7440-50-8	97.40	0.56	0.57
				Iron	7439-89-6	2.40	0.0137	
				Zinc	7440-66-6	0.15	0.0009	
				Phosphorus	7723-14-0	0.05	0.0003	
		Plating	0.004	Tin	7440-31-5	100.00	0.0189	0.02
		Under Plating	0.004	Copper	7440-50-8	100.00	0.0189	0.02
		Solder Inlay	0.002	Silver	7440-22-4	100.00	0.0094	0.01
		Silver Alloy	0.07	Silver	7440-22-4	45.00	0.1488	0.33
				Copper	7440-50-8	15.00	0.0496	
				Zinc	7440-66-6	16.00	0.0529	
				Cadmium	7440-43-9	24.00	0.0793	
6	Mandrel Wire	Annealed Copper Wire	1.72932	Copper	7440-50-8	100.00	8.17	8.17
		Coating	0.0000312	Polyamide	63428-83-1	100.00	0.0001	0.0001
7	Resist Wire	Nickel/ Chromium Alloy	0.22	Nickel	7440-02-0	74.00	0.77	1.04
				Copper	7440-50-8	1.00	0.0104	
				Chromium	7440-47-3	21.00	0.21819	
				Aluminum	7429-90-5	1.00	0.01039	
				Silicon	7440-21-3	1.00	0.01039	
				Cobalt	7440-48-4	1.00	0.01039	
				Manganese	7439-96-5	1.00	0.01039	
8	Varnish	Varnish	0.052	Phenolic Resin	9003-35-4	100.00	0.24558	0.25

9	Collector Bar	Beryllium Copper Alloy CA-172 alloy 25	0.031	Beryllium	7440-41-7	1.90	0.003	0.15
				Copper	7440-50-8	97.48	0.14	
				Cobalt	7440-48-4	0.20	0.0003	
				Nickel	7440-02-0	0.20	0.0003	
				Iron	7439-89-6	0.20	0.0003	
				Lead	7439-92-1	0.02	0.00003	
		Under Plating	0.001	Nickel	7440-02-0	100.00	0.00472	0.005
		Plating	0.001	Gold	7440-57-5	100.00	0.005	0.005
10	Lube	Lubricant	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.40	0.02	0.04
				Lithium 12-hydroxystearate	7620-77-1	5.70	0.002	
				Isohexadecyl-isooctadecanoate	52006-45-8	33.70	0.01	
				Polyisobutylene	9003-27-4	6.20	0.002	
11	Lube	Lubricant	0.008	1-Decene, tetramer, mixed with 1-decene trimer, hydorgenated	68649-12-7	58.80	0.022	0.04
				1-Propene, polymer with ethene	9010-79-1	30.80	0.012	
				Silica, amorphous fumed	112945-52-5	5.40	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5.00	0.002	
12	Lid	ShinKong compound (Blue)	2.49476	PBT	26062-94-2	53.70	6.33	11.78
				Glass Fiber	65997-17-3	30.00	3.53	
				Brominated Epoxy Resin	68928-70-	10.50	1.24	

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				Antimony Trioxide	1309-64-4	3.00	0.35	
				Pigment Blue 15	147-14-8	0.80	0.09	
				Further Additives, not to declare	N/A	2.00	0.24	
13	Rotor Molded	Nylatron	2.35868	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66.00	7.35	11.14
				Glass Fiber	65997-17-3	32.00	3.56	
				Molybdenum Disulfide	1317-33-5	2.00	0.223	
14	Shaft	Brass C360	2.234	Copper	7440-50-8	61.50	6.488	10.55
				Zinc	7440-66-6	35.40	3.735	
				Lead	7439-92-2	3.10	0.327	
		Plating	0.001	Nickel	7440-02-0	100.00	0.005	0.005
15	Slider Molded	Nylon	0.453592	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	60.00	1.29	2.14
				Glass Fiber	65997-17-3	30.00	0.64	
				Polytetrafluorethylene	9002-84-0	10.00	0.21	
16	Contact Spring	Paliney #6	0.008	Palladium	7440-05-3	39.80	0.02	0.04
				Silver	7440-22-4	33.90	0.01	
				Copper	7440-50-8	24.20	0.009	
				Platinum	7440-06-4	0.50	0.0002	
				Nickel	7440-02-0	1.59	0.0006	
				Zinc	7440-66-6	0.01	0.000004	
17	Cover	ShinKong compound (Blue)	2.99371	PBT	26062-94-2	53.70	7.59	14.14
				Glass Fiber	65997-17-3	30.00	4.24	
				Brominated Epoxy Resin	68928-70-	10.50	1.48	

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				Antimony Trioxide	1309-64-4	3.00	0.42	
				Pigment Blue 15	147-14-8	0.80	0.113	
				Further Additives, not to declare	N/A	2.00	0.283	
18	Terminal Wiper	Phosphor Bronze CDA 510	1.428816	Lead	7439-92-1	0.05	0.003	6.75
				Zinc	7440-66-6	0.30	0.020	
				Iron	7439-89-6	0.10	0.007	
				Tin	7440-31-5	5.80	0.391	
				Phosphorus	7723-14-0	0.35	0.024	
				Copper	7440-50-8	93.40	6.302	
19	Retaining Ring	Stainless Steel 420	0.082	Carbon	7440-44-0	0.15	0.001	0.39
				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	0.054	
				Iron	7439-89-6	83.78	0.324	
20	Bushing	Zamak Alloy #5	2.67	Aluminum	7429-90-5	4.30	0.542	12.61
				Copper	7440-50-8	1.25	0.158	
				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	11.895	
21	O-Ring x2	Silicone Rubber	0.0738	Silicon Rubber	63394-02-5	100.00	0.349	0.35
22	O-Ring	Nitrile Rubber	0.0093	Nitrile Rubber	9005-98-5	100.00	0.044	0.04
		Total weight	21.1745					

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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.