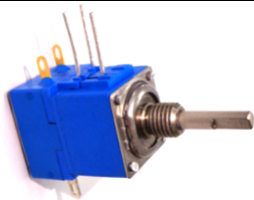


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	85/86C2X-EXX-AXX/R51L			
Product Line	Panel Control			
Compliance Date	January 02, 2006			
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	0.427	0.61
				Zinc	7440-66-6	30.00	0.183	
		Plating	0.0010	Nickel	7440-02-0	100	0.007	0.01
2	Lock Washer	Carbon Steel C1050	0.1690	Carbon	7440-44-0	0.5	0.006	1.26
				Iron	7439-89-6	98.7	1.242	
				Manganese	7439-96-5	0.75	0.009	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.0004	
		Plating	0.0001	Nickel	7440-02-0	100	0.001	0.001
3	Bushing	Aluminum 2011	0.7220	Aluminum (Metal)	7429-90-5	92.93	5.00	5.38
				Bismuth	7440-69-9	0.4	0.02	
				Copper	7440-50-8	5.5	0.30	
				Iron	7439-89-6	0.345	0.02	
				Lead	7439-92-1	0.4	0.02	
				Silicon	7440-21-3	0.2	0.01	
				Zinc (Metal)	7440-66-6	0.15	0.01	
				Misc, Not to Declare	Proprietary	0.075	0.004	
		Plating	0.0010	Nickel	7440-02-0	100	0.007	0.007

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4	Body Primary	Resin	1.8600	PBT	26062-94-2	53.7	7.44	13.85
				Glass Fiber	65997-17-3	30	4.16	
				Brominated Epoxy Resin	68928-70-1	10.5	1.45	
				Antimony Trioxide	1309-64-4	3	0.42	
				Pigment Blue 15	147-14-8	0.8	0.11	
				Further Additives, Not to Declare	Proprietary	2	0.28	
5	Shaft	Brass 360	1.5000	Copper	7440-50-8	61.5	6.87	11.17
				Iron	7439-89-6	0.2	0.02	
				Lead	7439-92-1	3	0.34	
				Zinc	7440-66-6	35	3.91	
				Misc, Not to Declare	Proprietary	0.3	0.03	
		Plating	0.0010	Nickel	7440-02-0	100	0.007	0.007
6	Rotor	Resin	0.5300	PBT	26062-94-2	53.7	2.12	3.95
				Glass Fiber	65997-17-3	30	1.18	
				Brominated Epoxy Resin	68928-70-1	10.5	0.41	
				Antimony Trioxide	1309-64-4	3	0.12	
				Pigment Blue 15	147-14-8	0.8	0.03	
				Further Additives, Not to Declare	Proprietary	2	0.08	
7	Contact Spring	Strip Laminated	0.005	Copper	7440-50-8	70	0.0261	0.04
				Zinc	7440-66-6	30	0.0112	
		Spacer Strip	0.004	Nickel	7440-02-0	18	0.005	0.03
				Copper	7440-50-8	55	0.016	
				Zinc	7440-66-6	27	0.008	
		Solder Inlay	0.0015	Tin	7440-31-5	94.2	0.011	0.01
				Silver	7440-22-4	5	0.0006	
				Bismuth	7440-69-9	0.3	0.00003	
				Impurities	Proprietary	0.5	0.00006	
		Wire	0.013	Copper	7440-50-8	65	0.06	0.10

MATERIAL DECLARATION SHEET



				Nickel	7440-02-0	18	0.02	
				Zinc	7440-66-6	17	0.02	
8	Rotor Driver	Zinc Alloy 3	1.0130	Aluminum (Metal)	7429-90-5	4	0.30	7.55
				Cadmium	7440-43-9	0.002	0.0002	
				Copper	7440-50-8	0.1	0.01	
				Iron	7439-89-6	0.05	0.004	
				Magnesium (Metal)	7439-95-4	0.04	0.003	
				Lead	7439-92-1	0.003	0.0002	
				Tin	7440-31-5	0.002	0.0002	
				Zinc (Metal)	7440-66-6	95.7	7.22	
				Misc, Not to Declare	Proprietary	0.1	0.01	
9	Substrate	Ceramic	1.0700	Aluminum Oxide	1344-28-1	96	7.65	7.97
				Silicon Oxide	7631-86-9	2	0.16	
				Magnesium Oxide	1309-48-4	1	0.08	
				Calcium Oxide	1305-78-8	1	0.08	
10	Conductor Ink	Ink	0.0050	Silver	7440-22-4	75	0.0279	0.04
				Palladium	7440-05-3	11.5	0.0043	
				Glass w/o Declarables	65997-17-3	6	0.0022	
				Lead in Glass	7439-92-1	0.5	0.0002	
				Dibismuth-Trioxide	1304-76-3	3.2	0.0012	
				Nickel-Monoxide	1313-99-1	0.8	0.0003	
				Zinc Oxide	1314-13-2	0.8	0.0003	
				Ceramic w/o Declarable Substances	66402-68-4	2.1	0.0008	
				Copper	7440-50-8	0.1	0.00004	
11	Resistive	Ink	0.0009	Ruthenium Oxide	12036-10-1	12.1	0.001	0.007
				Silver	7440-22-4	10.1	0.0007	
				Palladium	7440-05-3	12.1	0.001	
				Lead in Glass	7439-92-1	36.3	0.002	
				Aluminum	7429-90-5	3.1	0.0002	

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				Calcium Oxide	1305-78-8	1.1	0.00007	
				Bismuth Trioxide	1304-76-3	11.1	0.0007	
				Digadolinium Trioxide	12064-62-9	14.1	0.001	
12	Resistive	Ink	0.0171	Ruthenium Oxide	12036-10-1	15	0.019	0.13
				Silver	7440-22-4	5	0.006	
				Palladium	7440-05-3	5	0.006	
				Lead in Glass	7439-92-1	43	0.055	
				Aluminum	7429-90-5	5	0.006	
				Bismuth Trioxide	1304-76-3	13	0.017	
				Digadolinium Trioxide	12064-62-9	14	0.018	
13	Terminal Wire 3X	Copper	0.2960	Copper	7440-50-8	100	2.20	2.20
		Plating	0.0030	Tin	7440-31-5	100	0.022	0.022
14	Body	Resin	0.5670	PBT	26062-94-2	53.7	2.27	4.22
				Glass Fiber	65997-17-3	30	1.27	
				Brominated Epoxy Resin	68928-70-1	10.5	0.44	
				Antimony Trioxide	1309-64-4	3	0.13	
				Pigment Blue 15	147-14-8	0.8	0.03	
				Further Additives, Not to Declare	Proprietary	2	0.08	
15	Switch Body	Resin	1.4890	Diallyl Phthalate Polymer	25053-15-0	37	4.10	11.09
				Polyester Resin	68604-67-1	1	0.11	
				Calcium Silicate	13983-17-0	7.7	0.85	
				Amorphous Silica	61790-53-2	1.5	0.17	
				Glass Fiber	65997-17-3	41	4.55	
				Alumina Trihydrate	21645-51-2	2.6	0.29	
				Calcium Stearate	1592-23-0	1	0.11	
				Antimony Trioxide	1309-64-4	3.1	0.34	
				Bis(Tetrabromophthalimido)Ethane	32588-76-4	5.1	0.57	
16	Rotor Inner	Resin	0.5770	PBT	26062-94-2	54.25	2.33	4.30

MATERIAL DECLARATION SHEET



	Switch Molded			GF-Fiber ISO 1043-2	65997-17-3	30	1.29	
				Halogenated Compound ISO 1043-4, Not Declarable	Proprietary	9	0.39	
				Antimonytrioxide	1309-64-4	3.5	0.15	
				Carbon Black	1333-86-4	1.25	0.05	
				Additives, Not to Declare	Proprietary	2	0.09	
17	Blade Fixed X2	Strip Laminated Brass 260	0.009	Copper	7440-50-8	70	0.047	0.07
				Zinc	7440-66-6	30	0.020	
		Solder Inlay	0.00100	Silver	7440-22-4	100	0.007	0.007
		Under Plating	0.001	Nickel	7440-02-0	100	0.007	0.007
		Finish Plating	0.001	Gold	7440-57-5	100	0.007	0.007
18	Rotor Outer	Resin	0.2440	PBT	26062-94-2	53.7	0.98	1.82
				Glass Fiber	65997-17-3	30	0.55	
				Brominated Epoxy Resin	68928-70-1	10.5	0.19	
				Antimony Trioxide	1309-64-4	3	0.05	
				Pigment Blue 15	147-14-8	0.8	0.01	
				Further Additives, Not to Declare	Proprietary	2	0.04	
19	Spring Detent	BeCu CA-172 Alloy 25	0.0430	Beryllium	7440-41-7	1.9	0.006	0.32
				Nickel	7440-02-0	0.3	0.001	
				Cobalt	7440-48-4	0.3	0.001	
				Iron	7439-89-6	0.3	0.001	
				Aluminum	7429-90-5	0.1	0.0003	
				Silicon	7440-21-3	0.1	0.0003	
				Copper	7440-50-8	96.7	0.310	
				Silver	7440-22-4	0.05	0.0002	
				Misc, Not to Declare	Proprietary	0.25	0.001	
20	Spring Helper	BeCu CA-172 Alloy 25	0.0190	Beryllium	7440-41-7	1.9	0.003	0.14
				Nickel	7440-02-0	0.3	0.0004	

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				Cobalt	7440-48-4	0.3	0.0004	
				Iron	7439-89-6	0.3	0.0004	
				Aluminum	7429-90-5	0.1	0.0001	
				Silicon	7440-21-3	0.1	0.0001	
				Copper	7440-50-8	96.7	0.14	
				Silver	7440-22-4	0.05	0.00007	
				Misc, Not to Declare	Proprietary	0.25	0.0004	
21	Moving Contact X2	Silver	0.01400	Silver	7440-22-4	100	0.104	0.10
		Under Plating	0.00010	Nickel	7440-02-0	100	0.0007	0.0007
		Finish Plating	0.00010	Gold	7440-57-5	100	0.0007	0.0007
22	Spring Moving Contact X2	BeCu CA-172 Alloy 25	0.1600	Beryllium	7440-41-7	1.9	0.02	1.19
				Nickel	7440-02-0	0.3	0.004	
				Cobalt	7440-48-4	0.3	0.004	
				Iron	7439-89-6	0.3	0.004	
				Aluminum	7429-90-5	0.1	0.001	
				Silicon	7440-21-3	0.1	0.001	
				Copper	7440-50-8	96.7	1.2	
				Silver	7440-22-4	0.05	0.0006	
				Misc, Not to Declare	Proprietary	0.25	0.003	
		Under Plating	0.00020	Nickel	7440-02-0	100	0.001	0.001
		Finish Plating	0.00020	Tin	Proprietary	100	0.001	0.001
23	Washer	Teflon	0.0160	Polytetrafluoroethylene	9002-84-0	100	0.12	0.12
24	Spring Washer	Beryllium Copper	0.031	Beryllium	7440-41-7	1.90	0.0044	0.23
				Nickel	7440-02-0	0.30	0.0007	
				Cobalt	7440-48-4	0.30	0.0007	
				Iron	7439-89-6	0.30	0.0007	
				Aluminum	7429-90-5	0.10	0.0002	
				Silicon	7440-21-3	0.10	0.0002	
				Copper	7440-50-8	96.70	0.2	

MATERIAL DECLARATION SHEET



				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	Proprietary	0.25	0.0006	
25	Front Cover	Stainless Steel 304	0.694	Carbon	7440-44-0	0.08	0.004	5.17
				Manganese	7439-96-5	2	0.1034	
				Phosphorus	7723-14-0	0.045	0.0023	
				Sulfur	7704-34-9	0.03	0.0016	
				Silicon	7440-21-3	0.75	0.0388	
				Chromium	7440-47-3	18	0.9305	
				Nickel	7440-02-0	8	0.4135	
				Iron	7439-89-6	71.095	3.6751	
26	Rivet X4	Aluminum Wire 2117-H-15	0.468	Aluminum	7429-90-5	95.01	3.312	3.49
				Copper	7440-50-8	2.6	0.091	
				Silicon	7440-21-3	0.8	0.028	
				Chromium	7440-47-3	0.09	0.003	
				Manganese	7439-96-5	0.2	0.007	
				Zinc	7440-66-6	0.25	0.009	
				Iron	7439-89-6	0.7	0.024	
				Magnesium	7439-95-4	0.35	0.012	
27	Cover Molded	Resin	0.7880	PBT	26062-94-2	53.7	3.15	5.87
				Glass Fiber	65997-17-3	30	1.76	
				Brominated Epoxy Resin	68928-70-1	10.5	0.62	
				Antimony Trioxide	1309-64-4	3	0.18	
				Pigment Blue 15	147-14-8	0.8	0.05	
				Further Additives, Not to Declare	Proprietary	2	0.12	
28	Rear Cover	Stainless Steel 304	0.949	Carbon	7440-44-0	0.08	0.006	7.07
				Manganese	7439-96-5	2	0.141	
				Phosphorus	7723-14-0	0.045	0.003	
				Sulfur	7704-34-9	0.03	0.002	
				Silicon	7440-21-3	0.75	0.053	

MATERIAL DECLARATION SHEET



				Chromium	7440-47-3	18	1.272	
				Nickel	7440-02-0	8	0.565	
				Iron	7439-89-6	71.095	5.025	
29	Adhesive	Adhesive 680	0.0001	Acrylic Resin	Proprietary	98.8	0.0007	0.0007
				Misc, not to Declare	Proprietary	1.2	0.00001	
30	Lube	Lube	0.0016	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.40	0.0065	0.012
				Lithium 12-Hydroxystearate	7620-77-1	5.70	0.0007	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.70	0.0040	
				Polyisobutylene	9003-27-4	6.20	0.0007	
31	Lube	Lube	0.0288	Siloxanes and Silicones, Di-Me, Di-Ph	68083-14-7	68.90	0.148	0.21
				Lithium Stearate	4485-12-5	25.40	0.054	
				Silane, Dichlorodimethyl-Reaction Products with Silica	68611-44-9	4.80	0.010	
				Diphenylamine	122-39-4	0.90	0.002	
32	Lube	Lube	0.0290	Poly(Oxy(Methyl-1,2-Ethanediy)), Alpha-Butyl-Omega-Hydroxy	9003-13-8	97.5	0.21	0.216
				Benzenamine, N-Phenyl-, Reaction Products with 2,4,4-Trimethylpentene	68411-46-1	0.8	0.002	
				Quartz (SiO2)	14808-60-7	1.5	0.003	

MATERIAL DECLARATION SHEET



				N, N-Bis(2-Ethylhexyl)-4-Methyl- 1H-Benzotriazole-1-Methylamine	80584-90-3	0.1	0.0002	
				N, N-Bis(2-Ethylhexyl)-5-Methyl-1H-Benzotriazole-1-Methylamine	80595-74-0	0.1	0.0002	
		Total weight	13.4256					

This Document was updated on: **02/09/2026**

Important remarks:

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