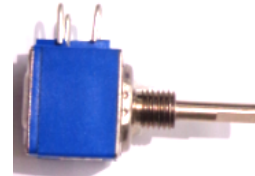


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	81/ 82C1X-XXX-BXXL			
Product Line	Sensor & Controls			
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	0.583	0.83
				Zinc	7440-66-6	30	0.250	
		Plating	0.0010	Nickel	7440-02-0	100	0.010	0.01
2	Lock Washer	Carbon Steel S50CM	0.1690	Carbon	7440-44-0	0.5	0.009	1.72
				Iron	7439-89-6	98.7	1.696	
				Manganese	7439-96-5	0.75	0.013	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.001	
		Plating	0.0010	Nickel	7440-02-0	100	0.010	0.01
3	Bushing	Aluminum 2011	0.7220	Aluminum (Metal)	7429-90-5	92.93	6.82	7.34
				Bismuth	7440-69-9	0.4	0.03	
				Copper	7440-50-8	5.5	0.40	
				Iron	7439-89-6	0.345	0.03	
				Lead	7439-92-1	0.4	0.03	
				Silicon	7440-21-3	0.2	0.01	
				Zinc (Metal)	7440-66-6	0.15	0.01	
				Misc, Not to Declare	N/A	0.075	0.01	

MATERIAL DECLARATION SHEET



		Plating	0.0010	Nickel	7440-02-0	100	0.01	0.01
4	Body	Resin	1.8600	PBT	26062-94-2	53.7	10.15	18.91
				Glass Fiber	65997-17-3	30	5.67	
				Brominated Epoxy Resin	68928-70-1	10.5	1.99	
				Antimony Trioxide	1309-64-4	3	0.57	
				Pigment Blue 15	147-14-8	0.8	0.15	
				Further Additives, Not to Declare	N/A	2	0.38	
5	Shaft	Brass 360	1.5000	Copper	7440-50-8	61.5	9.38	15.25
				Iron	7439-89-6	0.2	0.03	
				Lead	7439-92-1	3	0.46	
				Zinc	7440-66-6	35	5.34	
				Misc, not to Declare	N/A	0.3	0.05	
		Plating	0.0010	Nickel	7440-02-0	100	0.01	0.01
6	Rotor	Resin	0.5300	PBT	26062-94-2	53.7	2.89	5.39
				Glass Fiber	65997-17-3	30	1.62	
				Brominated Epoxy Resin	68928-70-1	10.5	0.57	
				Antimony Trioxide	1309-64-4	3	0.16	
				Pigment Blue 15	147-14-8	0.8	0.04	
				Further Additives, Not to Declare	N/A	2	0.11	
7	Contact Spring	Strip Laminated	0.005	Copper	7440-50-8	70	0.0003	0.05
				Zinc	7440-66-6	30	0.0003	
		Spacer Strip	0.004	Nickel	7440-02-0	18	0.007	0.04
				Copper	7440-50-8	55	0.022	
				Zinc	7440-66-6	27	0.011	
		Solder Inlay	0.0015	Tin	7440-31-5	94.2	0.014	0.02
				Silver	7440-22-4	5	0.0008	
				Bismuth	7440-69-9	0.3	0.00005	
				Impurities		0.5	0.0001	

MATERIAL DECLARATION SHEET



		Wire	0.013	Copper	7440-50-8	65	0.09	0.13
				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	0.41	10.30
				Cadmium	7440-43-9	0.002	0.0002	
				Copper	7440-50-8	0.1	0.01	
				Iron	7439-89-6	0.05	0.01	
				Magnesium (Metal)	7439-95-4	0.04	0.004	
				Lead	7439-92-1	0.003	0.0003	
				Tin	7440-31-5	0.002	0.0002	
				Zinc (Metal)	7440-66-6	95.7	9.86	
				Misc, not to Declare	N/A	0.1	0.01	
9	Substrate	Ceramic	0.9780	Aluminum Oxide	1344-28-1	96	9.55	9.94
				Silicon Oxide	7631-86-9	2	0.20	
				Magnesium Oxide	1309-48-4	1	0.10	
				Calcium Oxide	1305-78-8	1	0.10	
10	Ink	Ink	0.0050	Silver	7440-22-4	75	0.0381	0.05
				Palladium	7440-05-3	11.5	0.0058	
				Glass w/o Declarables	65997-17-3	6	0.0031	
				Lead in Glass	7439-92-1	0.5	0.0003	
				Dibismuth-Trioxide	1304-76-3	3.2	0.0016	
				Nickel-Monoxide	1313-99-1	0.8	0.0004	
				Zinc Oxide	1314-13-2	0.8	0.0004	
				Ceramic w/o Declarable Substances	66402-68-4	2.1	0.0011	
				Copper	7440-50-8	0.1	0.0001	
11	Ink	Ink	0.0010	Phenolic Resin	9039-25-2	54	0.005	0.010
				DAIP Resin	1087-21-4	4	0.0004	
				Carbon Black	1333-86-4	13	0.001	
				Graphite	7782-42-5	3	0.0003	

MATERIAL DECLARATION SHEET



				Silver	7440-22-4	26	0.003	
12	Ink	Ink	0.0171	Formaldehyde, Polymer	28470-78-2	31	0.054	0.174
				Barium sulfate	7727-43-7	16	0.028	
				Carbon Black	1333-86-4	9	0.016	
				DAIP Resin	1087-21-4	19	0.033	
				Phenolic Resin	9039-25-2	18	0.031	
				Graphite	7782-42-5	5	0.009	
				Polydimethylsiloxane	63148-62-9	2	0.003	
13	Terminal Wire 3X	Copper	0.2950	Copper	7440-50-8	100	3.00	3.00
		Plating	0.0030	Tin	7440-31-5	100	0.0305	0.0305
14	Body Element	Resin	0.5670	PBT	26062-94-2	53.7	3.10	5.76
				Glass Fiber	65997-17-3	30	1.73	
				Brominated Epoxy Resin	68928-70-1	10.5	0.61	
				Antimony Trioxide	1309-64-4	3	0.17	
				Pigment Blue 15	147-14-8	0.8	0.05	
				Further Additives, Not to Declare	N/A	2	0.12	
15	Washer	Teflon	0.0160	Polytetrafluoroethylene	9002-84-0	100	0.16	0.16
16	Spring Washer	Beryllium Copper	0.031	Beryllium	7440-41-7	1.90	0.0060	0.32
				Nickel	7440-02-0	0.30	0.0009	
				Cobalt	7440-48-4	0.30	0.0009	
				Iron	7439-89-6	0.30	0.0009	
				Aluminum	7429-90-5	0.10	0.0003	
				Silicon	7440-21-3	0.10	0.0003	
				Copper	7440-50-8	96.70	0.3048	
				Silver	7440-22-4	0.05	0.0002	
				Misc, Not to Declare	N/A	0.25	0.0008	
17	Front Cover	Stainless Steel 304	0.694	Carbon	7440-44-0	0.08	0.006	7.06
				Manganese	7439-96-5	2	0.1411	

MATERIAL DECLARATION SHEET



				Phosphorus	7723-14-0	0.045	0.0032	
				Sulfur	7704-34-9	0.03	0.0021	
				Silicon	7440-21-3	0.75	0.0529	
				Chromium	7440-47-3	18	1.2700	
				Nickel	7440-02-0	8	0.5645	
				Iron	7439-89-6	71.095	5.0163	
18	Rivet X4	Aluminum Wire 2117-H-15	0.346	Aluminum	7429-90-5	95.01	3.342	3.52
				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	0.025	
				Magnesium	7439-95-4	0.35	0.012	
19	Rear Cover	Stainless Steel 304	0.949	Carbon	7440-44-0	0.08	0.008	9.65
				Manganese	7439-96-5	2	0.193	
				Phosphorus	7723-14-0	0.045	0.004	
				Sulfur	7704-34-9	0.03	0.003	
				Silicon	7440-21-3	0.75	0.072	
				Chromium	7440-47-3	18	1.737	
				Nickel	7440-02-0	8	0.772	
				Iron	7439-89-6	71.095	6.859	
20	Adhesive	Adhesive	0.0001	.0001	Acrylic Resin	Proprietary	98.8	0.0010
					Misc, not to Declare	Proprietary	1.2	0.00001
21	Lube	Lube	0.0016	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.40	0.01	0.016
				Lithium 12-Hydroxystearate	7620-77-1	5.70	0.001	

MATERIAL DECLARATION SHEET



				Isohexadecyl-Isooctadecanoate	52006-45-8	33.70	0.005	
				Polyisobutylene	9003-27-4	6.20	0.001	
22	Lube	Lube	0.0288	Siloxanes and Silicones, Di-Me, Di-Ph	68083-14-7	68.90	0.202	0.29
				Lithium Stearate	4485-12-5	25.40	0.074	
				Silane, Dichlorodimethyl-Reaction Products with Silica	68611-44-9	4.80	0.014	
				Diphenylamine	122-39-4	0.90	0.003	
		Total weight	9.8360					

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.