


# MATERIAL DECLARATION SHEET

# BOURNS®

Material Number	PER56			
Product Line	Encoders			
Compliance Date	Since Inception			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Materials/ Substances	CASRN If applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. [%]
1	Housing	LCP	4.0	Liquid Crystal Polymer	70679-92-4	60	18.598	30.996
				Glass fiber	65991-17-3	40	12.398	
2	Terminals	Bronze	0.95	Copper	7440-50-8	91.451	7.0829	7.361
				Tin	7440-31-5	8.45	0.6544	
				Phosphorus	7723-14-0	0.09	0.0070	
				Lead	7439-92-1	0.003	0.0002	
				Zinc	7440-66-6	0.004	0.0003	
				Iron	7439-89-6	0.002	0.0002	
		Plating	0.05	Silver	7440-22-4	100	0.388	0.388
3	Wipers	Bronze (Without plating)	0.3	Copper	7440-50-8	91.44	2.126	2.325
				Tin	7440-31-5	8.45	0.196	
				Phosphorus	7723-14-0	0.09	0.002	
				Lead	7439-92-1	0.003	0.0001	
				Zinc	7440-66-6	0.004	0.0001	
				Iron	7439-89-6	0.002	0.00005	

# MATERIAL DECLARATION SHEET

**BOURNS®**

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Materials/ Substances	CASRN If applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. [%]
4	Detent Spring	SUS304	0.8	Carbon	7440-44-0	0.06	0.004	6.199
				Manganese	7439-96-5	2.2	0.136	
				Silicon	7440-21-3	0.27	0.017	
				Phosphorus	7723-14-0	0.03	0.002	
				Sulfur	7704-34-9	0.31	0.019	
				Chromium	7440-47-3	17.2	1.066	
				Nickel	7440-02-0	8.2	0.508	
				Copper	7440-50-8	2.2	0.136	
5	Shaft	LCP	3.5	Liquid Crystal Polymer	70679-92-4	60	16.273	27.121
				Glass fiber	65991-17-3	40	10.848	
6	Bracket	SPTE (Without plating)	3.3	Carbon	7440-44-0	0.5	0.128	25.571
				Manganese	7439-96-5	6	1.534	
				Phosphorus	7704-14-0	5	1.279	
				Iron	7439-89-6	88	22.502	
7	Lube	Polysiloxane	0.005	Polysiloxane	9011-19-2	100	0.039	0.039
		Total weight	12.905					

This Document was updated on: 2019-07-08

**Important remarks:**

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