


# MATERIAL DECLARATION SHEET

**BOURNS®**

Material Number	PAC18R			
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	PBT	1.0	Glass	65997-17-3	20	2.894	14.472
				Poly(butylene terephthalate)	30965-26-5	65	9.407	
				Antimony Oxide	1309-64-4	4	0.579	
				TBBPA polymer flame retardant	68928-70-1	10	1.447	
				Additives, not to declare	N/A	1	0.145	
2	Terminales	Bronze	0.475	Copper	7440-50-8	91.451	6.2863	6.874
				Tin	7440-31-5	8.45	5.8085	
				Phosphorus	7723-14-0	0.09	0.0062	
				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	0.025	Silver	7440-22-4	100	0.362	0.362	
3	Wipers	Bronze (Without plating)	0.15	Copper	7440-50-8	91.44	1.985	2.171
				Tin	7440-31-5	8.45	0.183	
				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	0.00004	

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4	Detent Spring	SUS304	0.78	Carbon	7440-44-0	0.06	0.007	11.288
				Manganese	7439-96-5	2.2	0.248	
				Silicon	7440-21-3	0.27	0.03	
				Phosphorus	7723-14-0	0.03	0.003	
				Sulfur	7704-34-9	0.31	0.035	
				Chromium	7440-47-3	17.2	1.942	
				Nickel	7440-02-0	8.2	0.926	
				Copper	7440-50-8	2.2	0.248	
				Iron	7439-89-6	69.53	7.849	
5	Shaft	PC	1.31	Polycarbonate	25037-45-0	100	18.958	18.958
6	Bushing	PC	1.21	Polycarbonate	25037-45-0	100	17.511	17.511
7	Bracket	SPCC	1.22	Carbon	7440-44-0	0.5	0.088	17.655
				Manganese	7439-96-5	6	1.059	
				Phosphorus	7723-14-0	5	0.883	
				Iron	7439-89-6	88	15.537	
				Silicon	7440-21-3	0.5	0.088	
8	Rotor Seat	Nylon	0.68	Polyamide	32131-17-2	50	4.921	9.841
				Brominated polystyrene	88497-56-7	10	0.984	
				Antimony Oxide	1309-64-4	10	0.984	
				Glass	65997-17-3	30	2.952	
9	Waterproof Ring	Rubber	0.05	Silicone Rubber	63394-02-5	100	0.724	0.723
10	Lube	Polysiloxane	0.01	Polysiloxane	9011-19-2	100	0.145	0.145
		Total weight	6.91					

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.