BX8D Hand-Crank Wirewound Rheostats

Product Overview

Oxide-insulated constantan wire is wound on a ceramic tube. Turn the handwheel to move the contact along the winding and adjust resistance continuously. For AC or DC circuits. Non-inductive versions are available on request.

Typical Applications

Instrument calibration, lab testing and teaching
Adjustable loads and current or voltage control
Excitation and speed control for generators and DC motors

Use the model tables to match current, resistance and size.



BX8D series shown

Configuration Guide

Configuration	Models	Listed current (A)	W × H (mm)	Page
Two tubes	BX8D-2/1 to 2/7	0.1-50	290 × 245	1
Three tubes	BX8D-3/1 to 3/7	0.1-50	390 × 245	2
Four tubes	BX8D-4/1 to 4/7	1-50	490 × 245	2
Six tubes	BX8D-6/1 to 6/7	1-60	690 × 265	3
Eight tubes	BX8D-8/1 to 8/7	1-30	490 × 410	3

Two tubes: Ratings and Dimensions

Width 290 mm / Height 245 mm

Model	BX8D-2/1	BX8D-2/2	BX8D-2/3	BX8D-2/4	BX8D-2/5	BX8D-2/6	BX8D-2/7
Legacy model	RXH-D40	RXH-D45	RXH-D50	RXH-D55	RXH-D60	RXH-D65	RXH-D70
Similar model	BX8-21	BX8-22	BX8-23	BX8-24	BX8-25	BX8-26	BX8-27
Length (mm)	485	535	585	635	685	735	785
Rated current (A)	**Rated resistance (Ω)**						
0.1*	**37,000 / 43,000 / 49,000**						
0.2	14,000	16,000	18,000	20,000	22,000	24,000	26,000
0.3	8,000	9,500	10,500	11,500	12,500	13,500	14,500
0.5	4,000	4,700	5,300	6,000	6,500	7,000	8,000
0.8	1,600	2,000	2,400	2,600	2,800	3,100	3,400
1	1,000	1,200	1,300	1,500	1,600	1,800	1,900
1.5	750	850	1,000	1,100	1,200	1,300	1,400
2	380	430	490	540	600	650	700
2.5	250	290	320	360	400	440	470
3	180	200	230	260	280	300	320
3.5	125	145	165	185	200	220	240
4.5	80	90	105	115	125	140	150
6	52	60	66	72	80	85	92
7	32	38	44	48	52	58	62
8	23	26	30	33	36	40	44
10	18	21	24	27	30	32	35
13	11.2	13	14.5	16.5	18	20	21.5
15	7.5	8.5	9.5	10.5	12	13	14.5
20	5.2	6	7	7.5	8.5	9.2	10
22.5	4	4.8	5.4	6	6.6	7.2	8
30	3	3.4	3.8	4.3	5	5.5	6
50	1	1.2	1.4	1.5	1.7	1.8	2

* The three 0.1 A values follow the source order. Confirm which models they apply to.
For BX8D-2/6 at 22.5 A, the source decimal comma is shown as 7.2 Ω.

Three- and Four-Tube Rheostats

Three tubes: Ratings and Dimensions

Width 390 mm / Height 245 mm

Model	BX8D-3/1	BX8D-3/2	BX8D-3/3	BX8D-3/4	BX8D-3/5	BX8D-3/6	BX8D-3/7
Legacy model	RXH-E40	RXH-E45	RXH-E50	RXH-E55	RXH-E60	RXH-E65	RXH-E70
Similar model	BX8-31	BX8-32	BX8-33	BX8-34	BX8-35	BX8-36	BX8-37
Length (mm)	485	535	585	635	685	735	785
Rated current (A)	Rated resistance (Ω)						
0.1*	55,000 / 65,000 / 74,000						
0.2	21,000	24,000	27,000	30,000	33,000	36,000	39,000
0.3	12,000	14,000	16,000	17,000	19,000	20,000	22,000
0.5	6,000	7,200	8,100	9,000	10,000	11,000	12,000
0.8	2,700	3,100	3,600	4,000	4,300	4,600	5,000
1	1,500	1,750	1,950	2,200	2,400	2,650	2,850
1.5	1,150	1,300	1,500	1,650	1,800	2,000	2,100
2	570	650	720	810	900	1,000	1,150
2.5	390	435	480	540	600	650	700
3	270	300	350	390	420	450	480
3.5	190	220	250	275	300	330	360
4.5	120	135	155	175	190	210	225
6	75	90	100	115	120	130	140
7	50	57	65	72	78	87	93
8	34	39	45	50	54	60	66
10	27	31	36	40	45	48	52
13	17	19	22	24	27	30	32
15	11.5	13	14.5	16	18	20	22
20	7.8	9	10.5	11.5	12.5	14	15
22.5	6	7.2	8	9	10	10.8	12
30	4.5	5.2	5.9	6.6	7.3	8	9
50	1.3	1.5	1.6	1.8	2	2.2	2.5

* The three 0.1 A values follow the source order. Confirm which models they apply to.

Four tubes: Ratings and Dimensions

Width 490 mm / Height 245 mm

Model	BX8D-4/1	BX8D-4/2	BX8D-4/3	BX8D-4/4	BX8D-4/5	BX8D-4/6	BX8D-4/7
Similar model	BX8-41	BX8-42	BX8-43	BX8-44	BX8-45	BX8-46	BX8-47
Length (mm)	485	535	585	635	685	735	785
Rated current (A)	Rated resistance (Ω)						
1	2,000	2,300	2,600	2,900	3,200	3,500	3,800
1.5	1,500	1,700	2,000	2,200	2,400	2,600	2,800
2	760	860	960	1,100	1,200	1,300	1,400
2.5	530	580	640	720	800	880	940
3	360	400	440	480	520	560	600
3.5	250	290	330	370	400	440	480
4.5	180	200	220	240	260	280	300
6	100	110	120	140	160	180	200
7	64	76	88	100	112	120	128
8	48	56	64	72	80	88	96
10	38	44	48	54	60	66	72
13	22.4	26	30	32.8	36	40	44
15	14.8	17.2	19.2	22	24	26	28.8
20	10.8	12	14	15.2	16.8	18.4	20
22.5	8	9.6	10.8	12	13.2	14.4	16
30	6	7	8	8.8	9.7	10.6	11.8
50	2	2.4	2.7	3	3.3	3.6	4

Six- and Eight-Tube Rheostats

Six tubes: Ratings and Dimensions

Width 690 mm / Height 265 mm

Model	BX8D-6/1	BX8D-6/2	BX8D-6/3	BX8D-6/4	BX8D-6/5	BX8D-6/6	BX8D-6/7
Similar model	BX8-61	BX8-62	BX8-63	BX8-64	BX8-65	BX8-66	BX8-67
Length (mm)	485	535	585	635	685	735	785
Rated current (A)	Rated resistance (Ω)						
1	3,000	3,500	3,900	4,400	4,800	5,300	5,700
1.5	2,300	2,600	3,000	3,300	3,600	3,900	4,200
2	1,150	1,300	1,450	1,600	1,800	2,000	2,200
2.5	780	870	960	1,100	1,200	1,300	1,400
3	540	600	700	780	840	900	960
3.5	380	440	500	550	600	660	720
4.5	240	270	310	350	380	420	460
6	150	180	200	220	240	260	280
7	100	115	130	145	160	175	190
8	68	78	90	100	110	120	130
10	54	62	72	81	90	99	108
13	34	39	44	48	54	59	64
15	23	26	29	32	35	38	41
20	15.6	18	21	22.8	25.5	27.6	30
22.5	12	14.4	16	18	19.8	21.6	24
30	9	10.2	11.4	12.6	13.8	15	16.2
60	2.25	2.55	2.85	3.15	3.45	3.75	4

Eight tubes: Ratings and Dimensions

Width 490 mm / Height 410 mm

Model	BX8D-8/1	BX8D-8/2	BX8D-8/3	BX8D-8/4	BX8D-8/5	BX8D-8/6	BX8D-8/7
Similar model	BX8-81	BX8-82	BX8-83	BX8-84	BX8-85	BX8-86	BX8-87
Length (mm)	485	535	585	635	685	735	785
Rated current (A)	Rated resistance (Ω)						
1	4,000	4,600	5,200	5,800	6,400	7,000	7,600
1.5	3,000	3,500	4,000	4,400	4,800	5,200	5,600
2	1,500	1,700	1,900	2,100	2,300	2,500	5,600**
2.5	1,000	1,100	1,300	1,300	1,600	1,700	1,900
3	720	800	880	960	1,000	1,100	1,200
3.5	500	580	660	740	800	880	960
4.5	360	400	440	480	520	560	600
6	200	230	250	280	320	360	400
7	128	152	176	200	225	240	256
8	96	112	128	144	160	176	192
10	76	88	96	108	120	132	144
13	44.8	52	60	65.6	72	80	88
15	30	35	38	44	48	52	57
20	21	24	28	31	34	36	40
22.5	16	19.2	21.6	24	26.4	28.8	32
30	12	14	15.5	17	18.5	20	22

** The source lists 5,600 Ω at 2 A for BX8D-8/7. Confirm this combination before ordering.

For eight-tube builds in the 50-250 A range, confirm availability. Include model, rated current and resistance.