

# BROADCOM Encoders



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## OPTICAL ENCODERS

### Single Turn Optical Absolute Encoders

MOUSER STOCK NO.	Broadcom Part No.	Fig.	No. of Channels	Resolution (CPR)	Signal Frequency	Supply Voltage	LED Current	Phase Error (Typ.)	Price Each		
									1	10	100
630-AEAT-9000-1GSH0	AEAT-9000-1GSH0	A	2	2048	500kHz	6V	94mA	5°e	70.19	66.68	56.98
630-AEAT-9000-1GSH1	AEAT-9000-1GSH1	A	2	2048	500kHz	5V	94mA	5°e	58.26	54.72	48.89
Codewheel											
630-HEDG-9000-H13	HEDG-9000-H13	B	For use with AEAT-9000 series encoders, made from glass, 17.5 mm optical radius						35.57	33.33	28.31

### Quick Assembly Optical Incremental Encoders

For quantities greater than listed, call for quote.											
MOUSER STOCK NO.	Broadcom Part No.	Fig.	No. of Channels	Resolution (CPR)	Pulse Width Error (Typ.) (°e)	Phase Error (Typ.) (°e)	Max. RPM	Price Each			
								1	10	100	500
With Latch											
630-AEDC5550W12	AEDC-5550-W12	C	3	2500	20	10	6000	60.03	56.38	50.37	43.65
630-AEDC5550Z12	AEDC-5550-Z12	C	3	5000	21	12	12000	60.03	56.38	50.37	43.65
630-AEDC5560W12	AEDC-5560-W12	C	3	2500	20	10	6000	54.73	51.41	45.92	39.80
630-AEDC5560Z12	AEDC-5560-Z12	C	3	5000	21	12	12000	54.73	51.41	45.92	39.80
630-AEDC5570W12	AEDC-5570-W12	C	3	2500	20	10	6000	60.03	56.38	50.37	43.65
630-AEDC5570Z12	AEDC-5570-Z12	C	3	5000	21	12	12000	60.03	56.38	50.37	43.65
Without Latch											
630-AEDM5810Z06	AEDM-5810-Z06	D	3	5000	21	12	12000	52.08	-	-	-
630-AEDM5810Z12	AEDM-5810-Z12	D	3	5000	21	12	12000	52.08	-	-	-

### Reflective Optical Encoders - Surface Mount

MOUSER STOCK NO.	Broadcom Part No.	Fig.	No. of Channels	Resolution (LPI)	Pulse Width Error (Ch A, Ch B) (Typ.)	Phase Error (Typ.)	Max. RPM	Count Frequency	Supply Voltage (V)	LED Current (mA)	Price Each			
											1	10	100	500
630-AEDR-8000-1K2	AEDR-8000-1K2	E	2	75	15, 25°e	12°e	9000	30kHz Typ.	5	15	13.44	12.39	10.27	9.26
630-AEDR-8300-1K2	AEDR-8300-1K2	E	2	75	15, 25°e	12°e	9000	30kHz Typ.	5	15	8.04	7.36	6.09	5.27
630-AEDR-8300-1Q2	AEDR-8300-1Q2	F	2	180	16°e	10°e	9000	30kHz Typ.	5	15	8.04	7.36	6.09	5.27
630-AEDR-8300-1W2	AEDR-8300-1W2	F	2	212	16°e	10°e	9000	60kHz Max.	3.3/5	15	8.04	7.36	6.09	5.27

### Reflective Incremental Encoders - Surface Mount

MOUSER STOCK NO.	Broadcom Part No.	Fig.	No. of Channels	Resolution (LPI)	Output Signal	Index Gating (°e)	Price Each			
							1	10	100	500
630-AEDR-8500-102	AEDR-8500-102	G	3	304	Digital	90	17.92	16.52	13.69	12.35
630-AEDR-8710-102	AEDR-8710-102	H	3	318	Digital	90	22.36	20.95	17.79	15.39
630-AEDR-8711-102	AEDR-8711-102	H	3	318	Digital	180	22.36	20.95	17.79	15.39
630-AEDR-8712-102	AEDR-8712-102	H	3	318	Digital	360	22.36	20.95	17.79	15.39
630-AEDR-8723-102	AEDR-8723-102	H	3	318	Analog	Tag 360	30.49	28.56	24.27	20.99

### Optical Incremental Encoders - Through Hole

MOUSER STOCK NO.	Broadcom Part No.	Fig.	No. of Channels	Resolution (CPR)	Pulse Width Error (Typ.) (°e)	Phase Error (Typ.) (°e)	Max. RPM	Price Each			
								1	10	100	500
630-AEDT9810B00	AEDT-9810-B00	I	3	1000	20	10	2400	30.49	28.56	24.27	20.99
630-AEDT9810T00	AEDT-9810-T00	I	3	2000	20	10	4800	30.49	28.56	24.27	20.99
630-AEDT9810W00	AEDT-9810-W00	I	3	2500	20	10	6000	30.49	28.56	24.27	20.99
630-AEDT9810Z00	AEDT-9810-Z00	I	3	5000	21	12	12000	30.49	28.56	24.27	20.99
630-AEDT9811B00	AEDT-9811-B00	I	3	1000	20	10	2400	30.49	28.56	24.27	20.99
630-AEDT9811T00	AEDT-9811-T00	I	3	2000	20	10	4800	30.49	28.56	24.27	20.99
630-AEDT9811W00	AEDT-9811-W00	I	3	2500	20	10	6000	30.49	28.56	24.27	20.99
630-AEDT9811Z00	AEDT-9811-Z00	I	3	5000	21	12	12000	30.49	28.56	24.27	20.99

### Transmissive Optical Encoders - Module Type

MOUSER STOCK NO.	Broadcom Part No.	Fig.	No. of Channels	Resolution (CPR)	Count Frequency	Max. RPM	Rise Time	Fall Time	Price Each			
									1	10	100	500
630-HEDS-9000-U00	HEDS-9000#U00	J	2	2048	100kHz	> 12000	200	50	25.82	24.18	20.54	17.77
630-HEDS-9040-B00	HEDS-9040#B00	J	3	1000	100kHz	> 12000	200	50	26.02	24.37	20.71	17.91
630-HEDS-9100-A00	HEDS-9100#A00	J	2	500	100kHz	> 12000	200	50	25.82	24.18	20.54	17.77
630-HEDS-9100-B00	HEDS-9100#B00	J	2	1000	100kHz	> 12000	200	50	25.82	24.18	20.54	17.77
630-HEDS-9100-E00	HEDS-9100#E00	J	2	200	100kHz	> 12000	200	50	25.82	24.18	20.54	17.77
630-HEDS-9140-A00	HEDS-9140#A00	J	3	500	100kHz	> 12000	200	50	29.07	27.23	23.13	20.01
630-HEDS-9140-I00	HEDS-9140#I00	J	3	512	100kHz	> 12000	200	50	29.07	27.23	23.13	20.01

### Reflective Optical Encoders - Miniature Panel Mount

For quantities greater than listed, call for quote.										
MOUSER STOCK NO.	Broadcom Part No.	Fig.	Shaft Diameter	Shaft Feel	Shaft Length	Resolution (CPR)	Price Each			
							1	10	100	500
Pins Front with Bracket										
630-HRPG-ASCA-54F	HRPG-ASCA#54F	K	6mm	Smooth	12.7mm	120	30.90	28.95	24.59	21.27
630-HRPG-AD16-56F	HRPG-AD16#56F	K	6mm D-cut	Detented	12.7mm	16	30.90	28.95	24.59	21.27
630-HRPG-AD32-19F	HRPG-AD32#19F	K	0.25in D-cut	Detented	0.8in	32	30.90	28.95	24.59	21.27
Pins Rear with Bracket										
630-HRPG-ASCA-54R	HRPG-ASCA#54R	L	6mm	Smooth	12.7mm	120	30.90	28.95	24.59	21.27
630-HRPG-ASCA-14R	HRPG-ASCA#14R	L	0.25in	Smooth	0.5in	120	30.90	28.95	24.59	21.27
Cable Connector										
630-HRPG-AD32-53C	HRPG-AD32#53C	M	6mm D-cut	Detented	7.6mm	32	30.90	28.95	24.59	21.27
630-HRPG-ASCA-14C	HRPG-ASCA#14C	M	0.25in	Smooth	0.5in	120	30.90	28.95	24.59	21.27
630-HRPG-AD32-17C	HRPG-AD32#17C	M	0.25in	Detented	0.8in	32	30.90	28.95	24.59	21.27
630-HRPG-AD32-16C	HRPG-AD32#16C	M	0.25in D-cut	Detented	0.5in	32	30.90	28.95	24.59	21.27

