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Absolute Optical Encoders

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Incremental Optical Encoders

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Quick Selection Guide

845A



Code Format	Absolute binary coded decimal (BCD) or absolute gray code (GRAY)	
Resolution	(BCD) 360 CPR (GRAY) 256 CPR	
Output Drive Capability	(BCD) TTL NPN Current sink = 14mA (GRAY) NPN open collector current sink = 40mA	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	No	
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845B



Code Format	Absolute binary coded decimal (BCD)	
Resolution	100 counts per revolution (CPR); 200 CPR; 500 CPR; 1000 CPR; 3600 CPR	
Output Drive Capability	NPN Current sink = 14mA TTL	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	No	
Selection Criteria	Page Number	5-10

845C



Code Format	Absolute binary coded decimal (BCD)	
Resolution	100 counts per revolution (CPR); 200 CPR; 360 CPR (single-turn only); 500 CPR; 1000 CPR; 3600 CPR	
Output Drive Capability	NPN Current sink = 20mA	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	No	
Selection Criteria	Page Number	5-12

845D



Code Format	Absolute binary coded decimal (BCD): Gray code (GRAY) Natural binary (NAT BIN)	
Resolution	(GRAY and NAT BIN): 256 CPR (8 bit); 512 CPR (9 bit) 1024 CPR (10 bit) (BCD): 360 CPR (10 bit); 1000CPR (12 bit)	
Output Drive Capability	TTL NPN current sink = 16mA NPN open collector = 16mA	
Slew Speed	6000 RPM	
Frequency Response	25K words/sec	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	Yes	
Selection Criteria	Page Number	5-15

845G



Code Format	Absolute Gray Code (GRAY)	
Resolution	Up to 4096 CPR	
Output Drive Capability	TTL NPN current sink = 16mA NPN open collector = 16mA	
Slew Speed	6000 RPM	
Frequency Response	25K words/sec	
Enclosure Rating (Housing)	NEMA Type 4, 13, IP66 (IEC 529)	
CE Marked	Yes	
Selection Criteria	Page Number	5-21

845F



Code Format	Incremental, 2 channels with zero index	
Resolution	Up to 5000 PPR on code disk	
Output Drive Capability	PNP current source = 20mA NPN current sink = 20mA Differential line driver = ±20mA NPN open collector = 20mA	
Slew Speed	6000 RPM	
Frequency Response	Data: 210kHz	Zero index: 125kHz
Enclosure Rating (Housing)	NEMA Type 4, 13, IP66 (IEC 529)	
CE Marked	Yes	
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845H



Code Format	Incremental, 2 channels with zero index	
Resolution	Up to 5000 PPR on code disk	
Output Drive Capability	PNP current source = 20mA NPN current sink = 20mA Differential line driver = ±20mA NPN open collector = 20mA	
Slew Speed	6000 RPM	
Frequency Response	Data: 210kHz	Zero index: 125kHz
Enclosure Rating (Housing)	NEMA Type 4, 13, IP66 (IEC 529)	
CE Marked	Yes	
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845K



Code Format	Incremental, 2 channels with zero index	
Resolution	Up to 5000 PPR on code disk	
Output Drive Capability	PNP current source = 20mA NPN current sink = 20mA Differential line driver = ±20mA NPN open collector = 20mA	
Slew Speed	6000 RPM	
Frequency Response	Data: 210kHz	Zero index: 125kHz
Enclosure Rating (Housing)	NEMA Type 1	
CE Marked	Yes	
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845M



Code Format	Incremental, 2 channels with zero index	
Resolution	Up to 3000 PPR	
Output Drive Capability	Differential line driver = $\pm 20\text{mA}$	
Slew Speed	15,000 RPM	
Frequency Response	100kHz	
Enclosure Rating (Housing)	IP66 (IEC 529)	
CE Marked	Yes	
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845P



Code Format	Incremental, 2 channels with zero index	
Resolution	500 or 1000 PPR on code disk	
Output Drive Capability	Differential line driver = $\pm 20\text{mA}$	
Slew Speed	5000 RPM	
Frequency Response	100kHz	
Enclosure Rating (Housing)	NEMA Type 1	
CE Marked	No	
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845T



Code Format	Incremental (A, AB or ABZ channels)	
Resolution	Up to 3000 PPR on code disk	
Output Drive Capability	Push-Pull single Ended Driver = $\pm 20\text{mA}$ Differential line driver = $\pm 20\text{mA}$	
Slew Speed	15,000 RPM	
Frequency Response	100kHz	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	Yes	
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845PY



Code Format	Incremental, 2 channels	
Resolution	Up to 3000 PPR on code disk	
Output Drive Capability	Differential line driver = $\pm 20\text{mA}$	
Slew Speed	15,000 RPM	
Frequency Response	100kHz	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	Yes	
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846



Slew Speed	6000 RPM (1:1 ratio)	
Enclosure Rating (Housing)	NEMA Type 4, IP66 (IEC 529)	
CE Marked	No	
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