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### **Absolute Optical Encoders**

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845A



<b>Code Format</b>	Absolute binary coded decimal (BCD) or absolute gray code (GRAY)	
<b>Resolution</b>	(BCD) 360 CPR (GRAY) 256 CPR	
<b>Output Drive Capability</b>	(BCD) TTL NPN Current sink = 14mA (GRAY) NPN open collector current sink = 40mA	
<b>Enclosure Rating (Housing)</b>	NEMA Type 4, IP66 (IEC 529)	
<b>CE Marked</b>	No	
<b>Selection Criteria</b>	Page Number	5-8

845B



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

845C



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

845D



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

**845G**



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

**845F**



<b>Code Format</b>	Incremental, 2 channels with zero index	
<b>Resolution</b>	Up to 5000 PPR on code disk	
<b>Output Drive Capability</b>	PNP current source = 20mA NPN current sink = 20mA Differential line driver = ±20mA NPN open collector = 20mA	
<b>Slew Speed</b>	6000 RPM	
<b>Frequency Response</b>	Data: 210kHz	Zero index: 125kHz
<b>Enclosure Rating (Housing)</b>	NEMA Type 4, 13, IP66 (IEC 529)	
<b>CE Marked</b>	Yes	
<b>Selection Criteria</b>	Page Number	5-18

**845H**



<b>Code Format</b>	Incremental, 2 channels with zero index	
<b>Resolution</b>	Up to 5000 PPR on code disk	
<b>Output Drive Capability</b>	PNP current source = 20mA NPN current sink = 20mA Differential line driver = ±20mA NPN open collector = 20mA	
<b>Slew Speed</b>	6000 RPM	
<b>Frequency Response</b>	Data: 210kHz	Zero index: 125kHz
<b>Enclosure Rating (Housing)</b>	NEMA Type 4, 13, IP66 (IEC 529)	
<b>CE Marked</b>	Yes	
<b>Selection Criteria</b>	Page Number	5-24

**845K**



<b>Code Format</b>	Incremental, 2 channels with zero index	
<b>Resolution</b>	Up to 5000 PPR on code disk	
<b>Output Drive Capability</b>	PNP current source = 20mA NPN current sink = 20mA Differential line driver = ±20mA NPN open collector = 20mA	
<b>Slew Speed</b>	6000 RPM	
<b>Frequency Response</b>	Data: 210kHz	Zero index: 125kHz
<b>Enclosure Rating (Housing)</b>	NEMA Type 1	
<b>CE Marked</b>	Yes	
<b>Selection Criteria</b>	Page Number	5-28

# Encoders and Resolvers

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### 845M



<b>Code Format</b>	Incremental, 2 channels with zero index	
<b>Resolution</b>	Up to 3000 PPR	
<b>Output Drive Capability</b>	Differential line driver = $\pm 20\text{mA}$	
<b>Slew Speed</b>	15,000 RPM	
<b>Frequency Response</b>	100kHz	
<b>Enclosure Rating (Housing)</b>	IP66 (IEC 529)	
<b>CE Marked</b>	Yes	
<b>Selection Criteria</b>	Page Number	5-31

### 845P



<b>Code Format</b>	Incremental, 2 channels with zero index	
<b>Resolution</b>	500 or 1000 PPR on code disk	
<b>Output Drive Capability</b>	Differential line driver = $\pm 20\text{mA}$	
<b>Slew Speed</b>	5000 RPM	
<b>Frequency Response</b>	100kHz	
<b>Enclosure Rating (Housing)</b>	NEMA Type 1	
<b>CE Marked</b>	No	
<b>Selection Criteria</b>	Page Number	5-34

### 845T



<b>Code Format</b>	Incremental (A, AB or ABZ channels)	
<b>Resolution</b>	Up to 3000 PPR on code disk	
<b>Output Drive Capability</b>	Push-Pull single Ended Driver = $\pm 20\text{mA}$ Differential line driver = $\pm 20\text{mA}$	
<b>Slew Speed</b>	15,000 RPM	
<b>Frequency Response</b>	100kHz	
<b>Enclosure Rating (Housing)</b>	NEMA Type 4, IP66 (IEC 529)	
<b>CE Marked</b>	Yes	
<b>Selection Criteria</b>	Page Number	5-38

### 845PY



<b>Code Format</b>	Incremental, 2 channels	
<b>Resolution</b>	Up to 3000 PPR on code disk	
<b>Output Drive Capability</b>	Differential line driver = $\pm 20\text{mA}$	
<b>Slew Speed</b>	15,000 RPM	
<b>Frequency Response</b>	100kHz	
<b>Enclosure Rating (Housing)</b>	NEMA Type 4, IP66 (IEC 529)	
<b>CE Marked</b>	Yes	
<b>Selection Criteria</b>	Page Number	5-36

### 846



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