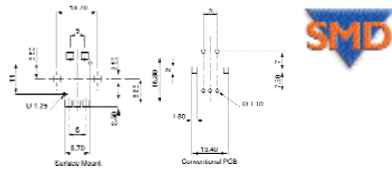


Digital Output Potentiometers — continued

CI-11 Series Digital Contacting Encoder



Conventional PCB PCB layouts
 Body H = 13, W = 11.7, D = 4.5
 Shaft = 16 (inc bush) x 6 dia., Bush = M7 x 0.75
 Surface mount

- Low cost
- Long life
- High precision and reliability

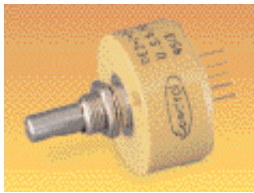
- Surface mount or conventional PCB mounting
- Momentary push switch
- 30 detent rotation

Contact rating	5mA max.	Rotational life	25,000 cycles
Contact resistance	0.5Ω max.	Pulses per revolution	6
Operating torque	0.3 to 2.0 Ncm	Operating temperature	-40°C to +85°C

RP248

Style	Order Code	Price Each				
		1+	25+	250+	500+	1000+
Surface mount	310-4436					
Conventional PCB	310-4450					

Contacting Encoders



- Patented Silver-in-Glass® switching element technology
- Integral active de-bounce circuitry provides clean, high level outputs with CMOS or TTL logic
- Robust construction, suitable for harsh or dirty conditions
- Available with 2 channel quadrature output or 3 channel with index pulse
- Suitable for high temperatures, vibration and shock environments



Contact incremental encoders provide a cost effective solution for applications not requiring a high resolution, for example position sensing in many automotive, industrial agricultural and medical applications.

Resolution	32 pulses/rev.
Rotational speed	200rpm (continuous), 400rpm (periodic)
Rotational life	5 million shaft rev.
Operating temperature	-40°C to +85°C
Supply voltage	3V (min.), 6V (max.)
Dimensions	L = 7.62 (body), L = 22.2 (spindle + bush) ∅ = 33.3 (body), ∅ = 3/8" 32UNF-2A (bush), 6.34 (spindle)

Connection	2-Channel Type	3-Channel Type
Input Vs	1	0
Common	2	1
Channel A Out	3	2
Channel Z Out	-	3
Channel B Out	4	4

RP245

Type	Mfrs. List No.	Order Code	Price Each				
			1+	10+	25+	50+	100+
2-Channel	DE2-0-1-32	700-7530					
3-Channel	DE2-1-1-32	700-7541					

120EN Series Rotary Optical Encoder



Ribbon Cable Horizontal PCB Vertical PCB
 Shaft = 22 (incl. bush), dia. = 6.35
 Mounting bush = 3/8" x 32 NEF
 Ribbon cable length = 190

- Manually or motor operated rotary optical encoder
- 2 channel quadrature output, channel A leads channel B by 90° electrically, CCW rotation
- Stainless steel spindle, nickel plated bush
- Ribbon cable, horizontal or vertical PCB mounting versions

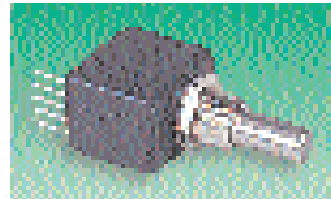
Supply voltage	5V dc ±0.25V dc	Maximum rotational speed	300 rpm
Supply current	30mA max.	Rotational life	10 million revolutions
Mechanical rotation	Continuous	Operating temperature	-40°C to +65°C
Resolution	128 pulses per revolution		

Connections	Ribbon cable	Red	Green	Yellow	Orange	5V dc	Ground	Output A	Output B	PCB	Pin 1	Pin 2	Pin 3	Pin 4	5V dc	Output A	Ground	Output B

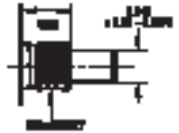
RP310

Style	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Ribbon cable	120EN-128-CBL	328-2338				
Horizontal PCB	120EN-128-B66	328-2340				
Vertical PCB	120EN-128-C24	328-2351				

EN Series Rotary Optical Encoder



Body
 H = 21.21,
 W = 15.88,
 D = 18.50,
 Spindle L = 22.23



Bushing styles 107-100



107-101 (Ball bearing)

107-102 (Ball bearing)

452-348

- Suitable for digital systems where both magnitude and direction of adjustment must be provided
- 2 bit gray code output produced, channel A leads channel B by 90° (clockwise)
- Ideal as a digital panel control or as position sensing devices in applications where long life, high resolution and precise linearity are critical.

Supply voltage	5.0V dc ±0.25V dc	Operating temperature	-40°C to +85°C
Supply current	26mA max	Connections	1 Ground
Mechanical rotation	Continuous		2 NC
Resolution			3 Output A
(107-100, 107-102, 452-348)	128 pulses per revolution		4 +Vcc
(107-101)	256 pulses per revolution		5 Output B

Mfrs. List No.	ENA1J-B28-L00128 = 107-100,	ENS1J-B28-L00256 = 107-101
	ENT1J-D28-L00128 = 107-102,	ENC1J-D28-L00128 = 452-348.

RP117

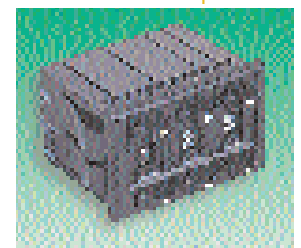
Order Code		Price Each			
		1+	25+	50+	100+
107-100					
107-101					
107-102					
452-348					

Digital Push Button Potentiometers

2 Watt – 3682/3683/3684 Series



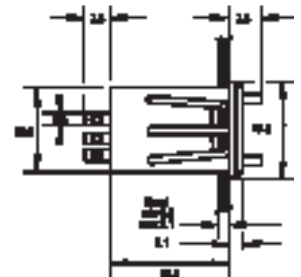
Panel cut-out = 25.9 21.0, ±0.2



Panel cut-out = 36.0 21.0, ±0.2



Panel cut-out = 46.2 21.0, ±0.2



- Digital push-button potentiometer enabling precise setting of resistance value
- Snap-in panel mounting.