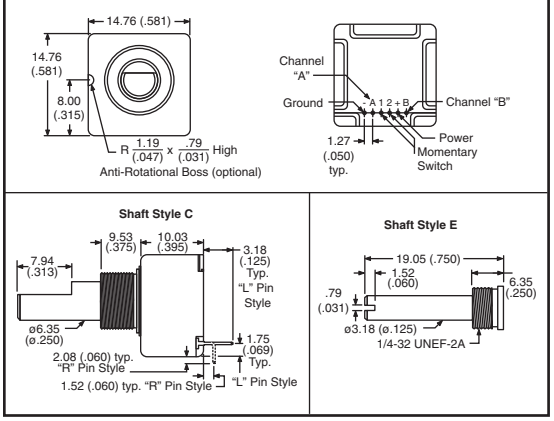
DIMENSIONS: mm (in.)



14MM ROTARY OPTICAL ENCODER WITH SWITCH

Features:
- Lead free
- HCMOS, CMOS and TTL compatible
- Compact package size
- High rotational cycle life
- Optional "soft touch" push switch
- Optional detent
- Splashproof shaft seal
- Recommended for human/machine interface applications (HMI)

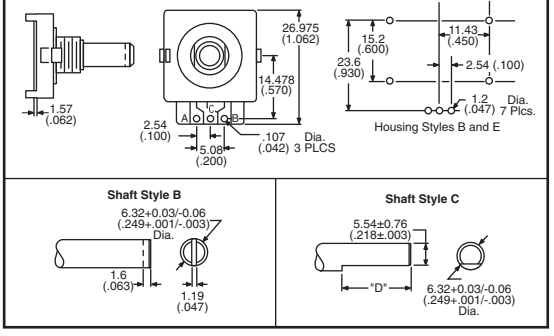
Electrical Characteristics:
- Electrical output: 2-bit quadrature code
- Resolution: 8 - 64 pulses per revolution (PPR)
- Operating Temperature Range: -40°C to +70°C

Mechanical Characteristics:
- Rotational life:
  Non-detent (@100RPM), 1,000,000 cycles
  With detent (@30RPM), 100,000 cycles

RoHS Compliant

MOUSER STOCK NO.	Bourns Part No.	Shaft Type	Pulses /Rev.	Switch	Price Each			
					1	5	10	25
652-EM14A0D-C24-L08N	EM14A0D-C24-L008N	C	8	no	17.90	17.01	16.57	13.69
652-EM14A0D-C24-L32N	EM14A0D-C24-L032N	C	32	no	17.90	17.01	16.57	13.69
652-EM14A0D-C24-L64N	EM14A0D-C24-L064N	C	64	no	17.90	17.01	16.57	13.69
652-EM14C0D-E24-L16S	EM14C0D-E24-L016S	E	16	yes	19.10	17.18	15.48	14.61
652-EM14C0D-E24-L32S	EM14C0D-E24-L032S	E	32	yes	19.10	17.18	15.48	14.61
652-EM14C0D-E24-L64S	EM14C0D-E24-L064S	E	64	yes	19.10	17.18	15.48	14.61

DIMENSIONS: mm (in.)



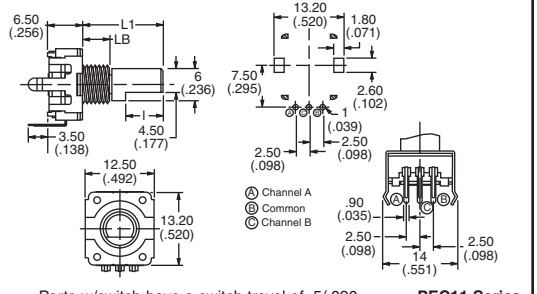
EC SERIES "SLIMLINE" 22MM DIGITAL ENCODER

Specifications:
- Rotational Life: 200k shaft revolutions
- 2 channel quadrature output signal
- Operating Temperature: +1°C to +85°C

Features:
- Space saving low profile design
- Plastic shaft and bushing
- FR4 element design
- Long operating life
- Optional detents

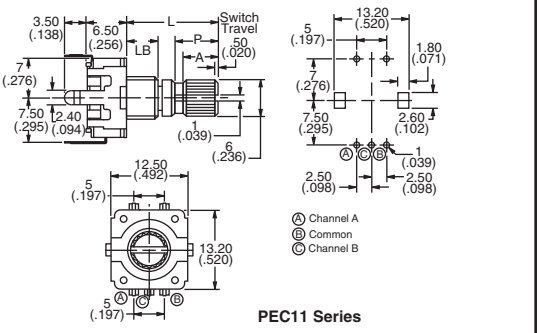
MOUSER STOCK NO.	Bourns Part No.	Shaft Type	Detents	Pulses /Rev.	Price Each			
					1	5	10	25
652-ECW0J-C24-BE0024	ECW0J-C24-BE0024	C	0	24	7.53	6.14	5.33	4.74
652-ECW0J-C24-BE0036	ECW0J-C24-BE0036	C	0	36	6.41	5.45	4.54	4.04
652-ECW0J-C24-BC0006	ECW0J-C24-BC0006	C	24	6	5.14	4.71	4.51	3.50
652-ECW1J-C24-BC0024	ECW1J-C24-BC0024	C	24	24	5.14	4.71	4.51	3.50
652-ECW0J-B24-BE0024	ECW0J-B24-BE0024	B	0	24	6.41	5.45	4.54	4.04
652-ECW0J-B24-BE0036	ECW0J-B24-BE0036	B	0	36	6.41	5.45	4.54	4.04
652-ECW0J-B24-BC0006	ECW0J-B24-BC0006	B	24	6	8.36	7.10	5.92	3.50
652-ECW1J-B24-BC0024	ECW1J-B24-BC0024	B	24	24	5.14	4.71	4.51	3.50

DIMENSIONS: mm (in.)

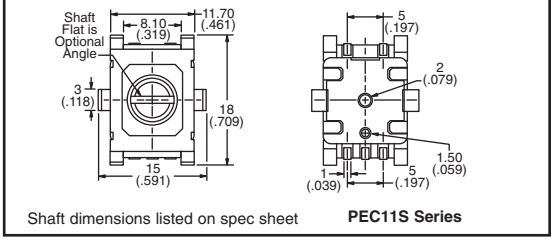


Parts w/switch have a switch travel of .5/.020

PEC11 Series



PEC11 Series



Shaft dimensions listed on spec sheet

PEC11S Series

12MM INCREMENTAL ENCODERS

PEC11 Series

PRODUCT NEW

Features:
- Push switch option
- Compact, rugged design
- High reliablity
- Metal bushing/shaft

Applications:
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

MOUSER STOCK NO.	Bourns Part No.	Switch	Detents	Price Each					
				1	5	10	25	50	100
652-PEC11-4015FN0024	PEC11-4015F-N0024	N	0	1.50	1.35	.97	.85	.79	.75
652-PEC11-4020F-S024	PEC11-4020F-S0024	Y	0	1.70	1.56	1.10	.97	.91	.86
652-PEC11-4115F-S18	PEC11-4115F-S0018	Y	18	1.68	1.50	1.08	.95	.91	.864
652-PEC11-4125F-N18	PEC11-4125F-N0018	N	18	1.50	1.35	.97	.85	.79	.75
652-PEC11-4125F-S18	PEC11-4125F-S0018	Y	18	1.68	1.50	1.08	.95	.88	.83
652-PEC11-4215F-S24	PEC11-4215F-S0024	Y	24	1.68	1.50	1.08	.95	.91	.864
652-PEC11-4215K-S12	PEC11-4215K-S0012	Y	24	1.68	1.50	1.08	.95	.91	.86
652-PEC11-4220F-N12	PEC11-4220F-N0012	N	24	1.50	1.35	.97	.85	.79	.75
652-PEC11-4220F-N24	PEC11-4220F-N0024	N	24	1.50	1.35	.97	.85	.79	.75
652-PEC11-4220F-S12	PEC11-4220F-S0012	Y	24	1.68	1.50	1.08	.95	.91	.864
652-PEC11-4220F-S24	PEC11-4220F-S0024	Y	24	1.68	1.50	1.08	.95	.91	.864
652-PEC11-4225F-S24	PEC11-4225F-S0024	Y	24	1.68	1.50	1.08	.95	.91	.864
652-PEC11-4225F-S24	PEC11-4225F-S0024	Y	24	1.68	1.50	1.08	.95	.91	.864
652-PEC11-4230FS0012	PEC11-4230F-S0012	Y	24	1.84	1.62	1.44	1.35	1.24	1.19
652-PEC11-4230F-S24	PEC11-4230F-S0024	Y	24	1.68	1.50	1.08	.95	.91	.864

PEC11S Series SMD

PRODUCT NEW

Features:
- Push switch option standard
- Compact, rugged design
- High reliablity
- Metal bushing/shaft
- Surface mount version

Applications:
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

MOUSER STOCK NO.	Bourns Part No.	Switch	Detents	Price Each					
				1	5	10	25	50	100
652-PEC11S9213KS0015	PEC11S-9213K-S0015	Y	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9215KH0015	PEC11S-9215K-H0015	Y	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9215KN0015	PEC11S-9215K-N0015	N	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9220FS0015	PEC11S-9220F-S0015	Y	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9220KS0015	PEC11S-9220K-S0015	Y	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S929K-H0015	PEC11S-929K-H0015	Y	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S929K-N0015	PEC11S-929K-N0015	N	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S929K-S0015	PEC11S-929K-S0015	Y	2 per pulse	1.74	1.66	1.58	1.49	1.41	1.33

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