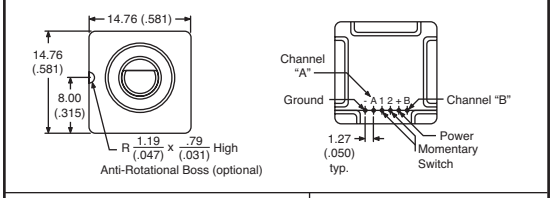
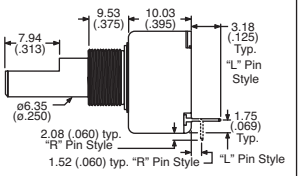
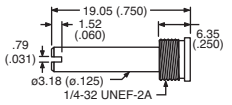
DIMENSIONS: mm (in.)



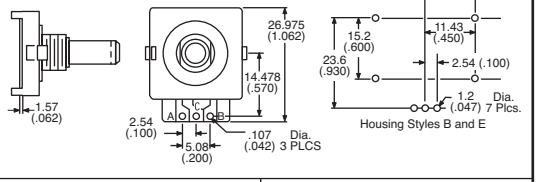
Shaft Style C



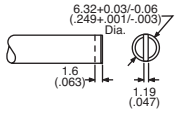
Shaft Style E



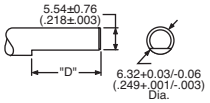
DIMENSIONS: mm (in.) — **EC Series**



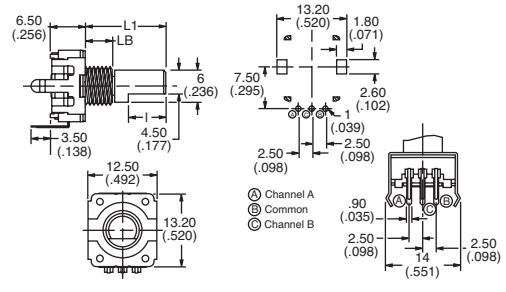
Shaft Style B



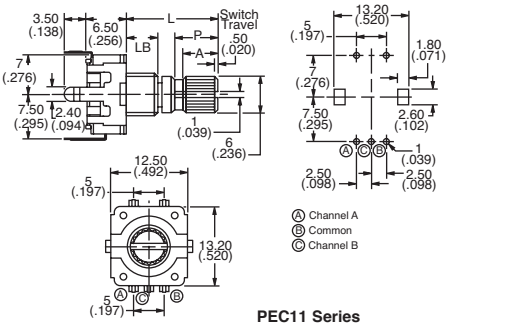
Shaft Style C



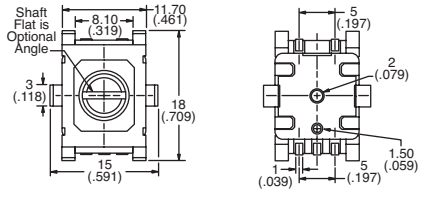
DIMENSIONS: mm (in.)



Parts w/switch have a switch travel of .5/.020 **PEC11 Series**



PEC11 Series



Shaft dimensions listed on spec sheet **PEC11S Series**

BOURNS 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

BOURNS 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	5.25	4.91
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	5.25	4.91
652-ECW0J-B24-BC0006	ECW0J-B24-BC0006	B	24	6	8.36	8.06	7.74	7.40
652-ECW1J-B24-BC0024	ECW1J-B24-BC0024	B	24	24	6.39	5.94	5.60	4.34

BOURNS 9MM INCREMENTAL ENCODERS

PEC09 Series

PRODUCT NEW

Features:

- Push switch option
- Compact, rugged design
- High reliability
- Metal bushing/shaft

Applications:

Level control, tuning and timer settings in:

- Audio-visual equipment
- Consumer electric appliances
- Environmental controls
- Musical instrumentation
- Communications equipment

*Refer to data sheet for dimensions

MOUSER STOCK NO.	Bourns Part No.	Switch	Detents	Price Each					
				1	5	10	25	50	100
652-PEC092020FS0015	PEC09-2020F-S0015	Y	0	3.51	3.24	2.70	2.43	2.16	1.89
652-PEC092025KN0015	PEC09-2025K-N0015	N	0	2.28	2.10	1.75	1.58	1.40	1.23
652-PEC092120FS0012	PEC09-2120F-S0012	Y	12	3.51	3.24	2.70	2.43	2.16	1.89
652-PEC092125KN0012	PEC09-2125K-N0012	N	12	2.28	2.10	1.75	1.58	1.40	1.23
652-PEC092220FS0012	PEC09-2220F-S0012	Y	24	3.51	3.24	2.70	2.43	2.16	1.89
652-PEC092225KN0012	PEC09-2225K-N0012	N	24	2.28	2.10	1.75	1.58	1.40	1.23
652-PEC092320FS0015	PEC09-2320F-S0015	Y	30	3.51	3.24	2.70	2.43	2.16	1.89
652-PEC092325KN0015	PEC09-2325K-N0015	N	30	2.28	2.10	1.75	1.58	1.40	1.23

BOURNS 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	1.62	1.46	1.04	.91	.86	.81
652-PEC11-4020F-S024	PEC11-4020F-S0024	Y	0	1.82	1.64	1.17	1.02	.96	.91
652-PEC11-4115F-S18	PEC11-4115F-S0018	Y	18	1.82	1.64	1.17	1.02	.96	.91
652-PEC11-4125F-N18	PEC11-4125F-N0018	N	18	1.62	1.46	1.04	.91	.86	.81
652-PEC11-4125F-S18	PEC11-4125F-S0018	Y	18	1.82	1.64	1.17	1.02	.96	.91
652-PEC11L4220FS0015	PEC11L-4220F-S0015	Y	30	2.24	2.08	1.92	1.60	1.44	1.28
652-PEC11-4215F-S24	PEC11-4215F-S0024	Y	24	1.82	1.64	1.17	1.02	.96	.91
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	1.62	1.46	1.04	.91	.86	.81
652-PEC11-4220F-N24	PEC11-4220F-N0024	N	24	1.62	1.46	1.04	.91	.86	.81
652-PEC11-4220F-S12	PEC11-4220F-S0012	Y	24	1.82	1.64	1.17	1.02	.96	.91
652-PEC11-4220F-S24	PEC11-4220F-S0024	Y	24	1.82	1.64	1.17	1.02	.96	.91
652-PEC11-4225F-S24	PEC11-4225F-S0024	Y	24	1.82	1.64	1.17	1.02	.96	.91
652-PEC11-4225F-S24	PEC11-4225F-S0024	Y	24	1.82	1.64	1.17	1.02	.96	.91
652-PEC11-4230FS0012	PEC11-4230F-S0012	Y	24	1.82	1.62	1.17	1.02	.96	.93
652-PEC11-4230F-S24	PEC11-4230F-S0024	Y	24	1.82	1.64	1.17	1.02	.96	.91
652-PEC11L4125KN0020	PEC11L-4125K-N0020	N	20	2.07	1.86	1.47	1.18	1.09	1.05

PEC11S Series SMD

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 (per pulse)	Price Each					
				1	5	10	25	50	100
652-PEC11S9213KS0015	PEC11S-9213K-S0015	Y	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9215KH0015	PEC11S-9215K-H0015	Y	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9215KN0015	PEC11S-9215K-N0015	N	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9220FS0015	PEC11S-9220F-S0015	Y	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S9220KS0015	PEC11S-9220K-S0015	Y	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S929K-H0015	PEC11S-929K-H0015	Y	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S929K-N0015	PEC11S-929K-N0015	N	2	1.74	1.66	1.58	1.49	1.41	1.33
652-PEC11S929K-S0015	PEC11S-929K-S0015	Y	2	1.74	1.66	1.58	1.49	1.41	1.33

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