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SERIES: ACZ11 DESCRIPTION: mechanical incremental encoder

ELECTRICAL SPECIFICATIONS

parameter	conditions/description	
output waveform	square wave	
output signals	A, B phase	
current consumption	10 mA	
output phase difference	T1, T2, T3, T4 \geq 3.5 ms @ 60 rpm (see output waveform)	
supply voltage	5 V dc max.	
output resolution	12, 15, 20, 30 ppr	
switch rating	12 V dc, 50 mA (ACZ11BRXE models only)	
insulation resistance	300 V dc, 100 MΩ	
withstand voltage	300 V ac	

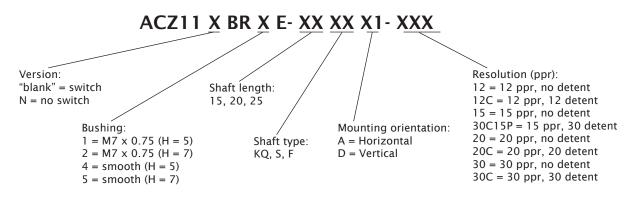
MECHANICAL SPECIFICATIONS

parameter	conditions/description	min	nom	max	units
shaft load	axial			8	kgf
rotational torque	with detent click without detent click	60 60	140 80	220 100	gf∙cm gf∙cm
push switch operational force	(ACZ11BRXE models only)	300		900	gf∙cm
push switch life	(ACZ11BRXE models only)			50,000	cycles
rotational life				30,000	cycles

ENVIRONMENTAL SPECIFICATIONS

parameter	conditions/description	min	nom	max	units
operating temperature	-10		65	°C	
storage temperature		-40		75	°C
humidity		85			% RH
vibration	0.75 mm max. travel for 2 hours	10		55	Hz

PART NUMBER KEY





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> **BUSHING** Condition | H

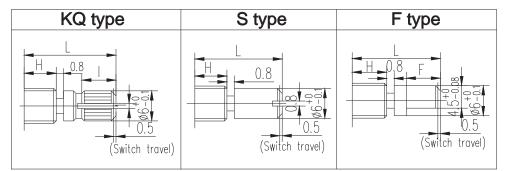
M7-P0.75

M7-P0.75 smooth 5 smooth

5

DESCRIPTION: mechanical incremental encoder **SERIES:** ACZ11

SHAFT OPTIONS



switch travel for ACZ11BRXE only

H=5 15KQ 20KQ 25KQ					
	15KQ	20KQ	25KQ		
L	15	20	25		
1	7	10	12		
H=7					

H=7					
	15KQ	20KQ	25KQ		
L	15	20	25		
1	5	8.5	10		

H=5				
	15S	20S	25S	
L	15	20	25	

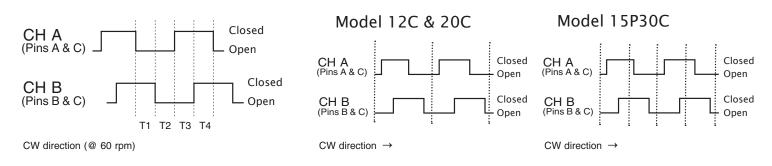
H=7				
	15S	20S	25S	
L	15	20	25	

H=5				
	15F	20F	25F	
L	15	20	25	
F	8	12	12	

H=7					
	15F	20F	25F		
L	15	20	25		
F	8	12	12		

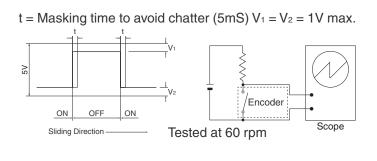
OUTPUT WAVEFORM

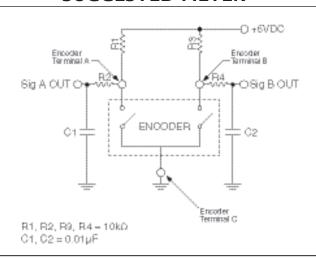
DETENT POSITIONS



SLIDING NOISE

SUGGESTED FILTER



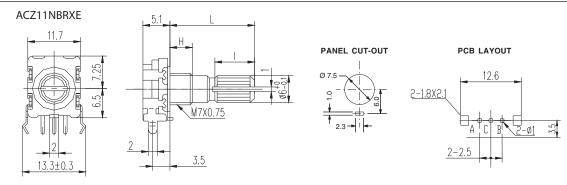


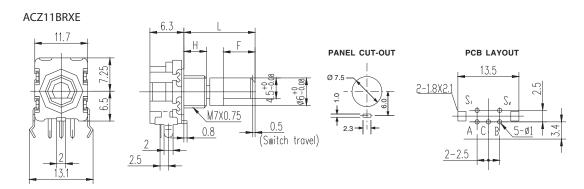


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MECHANICAL DRAWING (horizontal)





MECHANICAL DRAWING (vertical)

