CUI DEVICES

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	

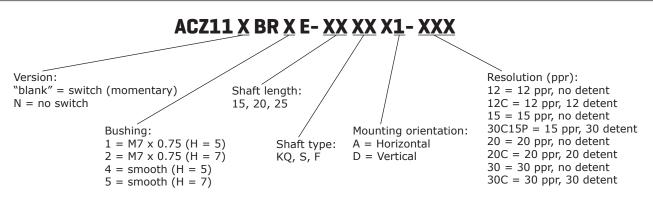
MECHANICAL SPECIFICATIONS

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

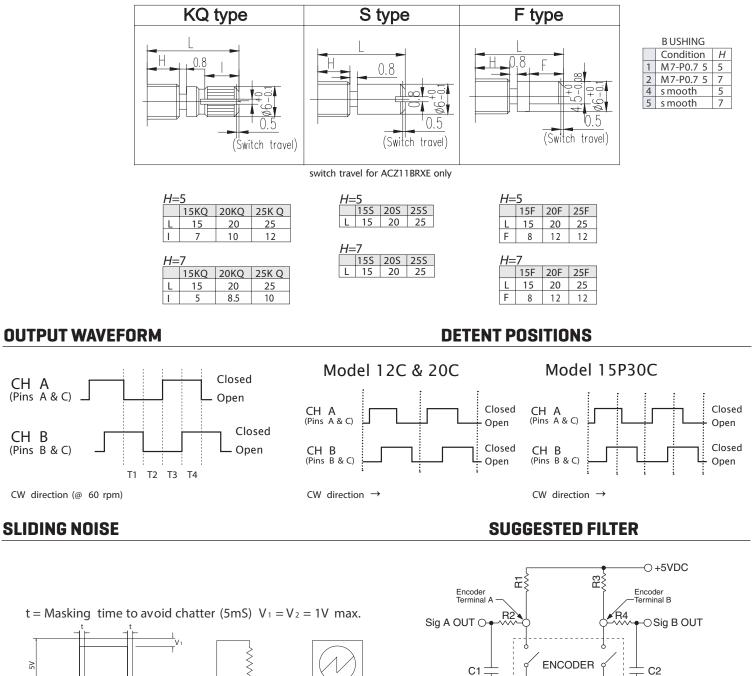
ENVIRONMENTAL SPECIFICATIONS

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



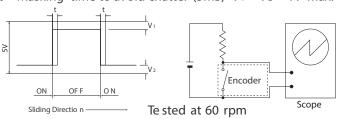
SHAFT OPTIONS





CH A (Pins A & C) _

CH B (Pins B & C)

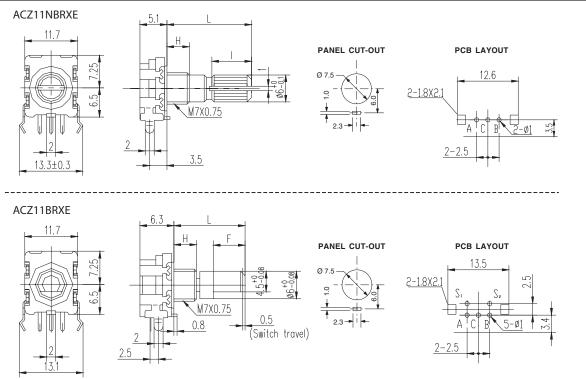


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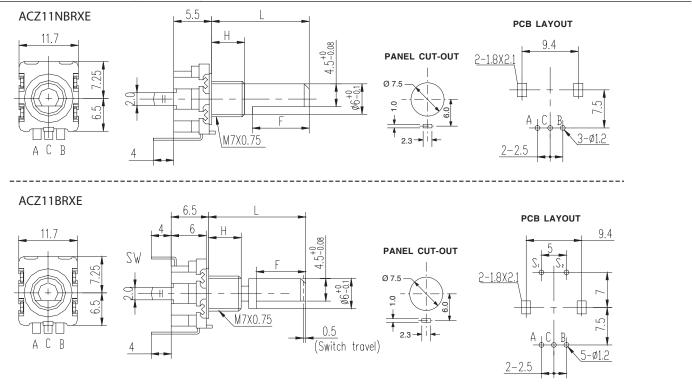
R1, R2, R3, R4 = $10k\Omega$ $C1, C2 = 0.01 \mu F$

Encoder Terminal C

MECHANICAL DRAWING (horizontal)



MECHANICAL DRAWING (vertical)



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REVISION HISTORY

rev.	description	date
1.0	initial release	10/30/2009
1.01	brand update	10/04/2019
1.02	updated datasheet	06/15/2020

The revision history provided is for informational purposes only and is believed to be accurate.

CUI DEVICES

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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