CUI DEVICES

date 06/15/2020

page 1 of 4

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

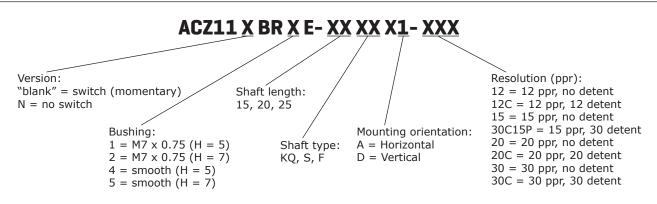
MECHANICAL SPECIFICATIONS

parameter	conditions/description	min	nom	max	units
shaft load	axial			8	kgf
rotational torque	with detent click	60	140	220	gf∙cm
	without detent click	60	80	100	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

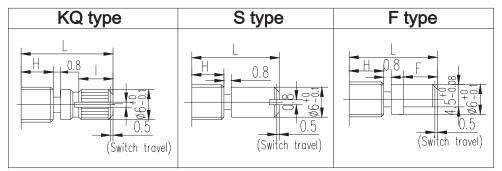
ENVIRONMENTAL SPECIFICATIONS

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



	B USHING		
	Condition	Н	
1	M7-P0.7 5	5	
2	M7-P0.7 5	7	
4	s mooth	5	
5	s mooth	7	

switch travel for ACZ11BRXE only

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

H=7					
	15KQ	20KQ	25K Q		
L	15	20	25		
П	5	8.5	10		

H=5			
	15S	205	25S
L	15	20	25

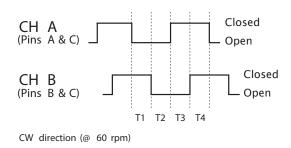
H=	:7		
	15S	20S	25S
L	15	20	25

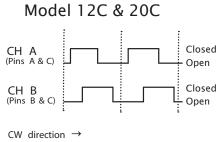
<i>H</i> =5				
	15F	20F	25F	
Ш	15	20	25	
F	8	12	12	

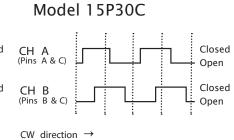
H=7				
	15F	20F	25F	
L	15	20	25	
F	8	12	12	

OUTPUT WAVEFORM

DETENT POSITIONS

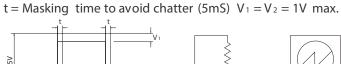


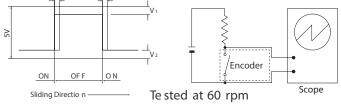


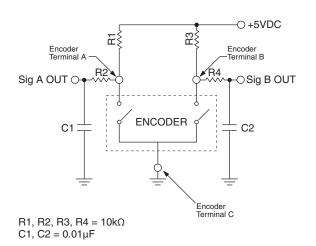


SLIDING NOISE

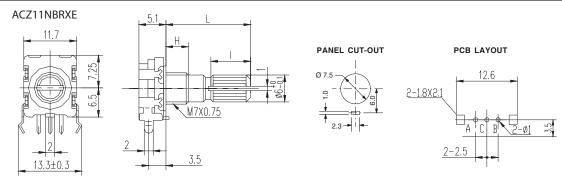
SUGGESTED FILTER

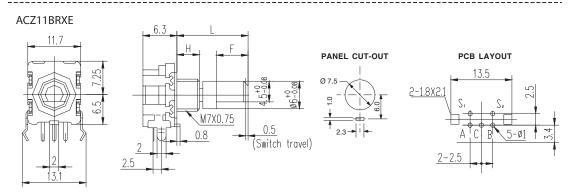




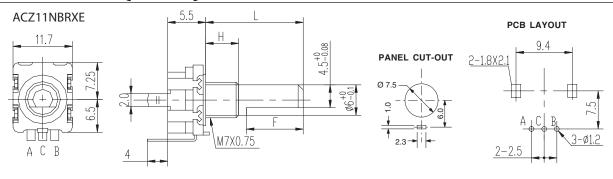


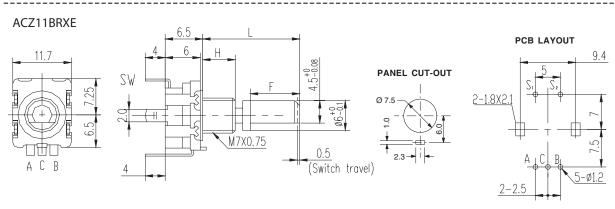
MECHANICAL DRAWING (horizontal)





MECHANICAL DRAWING (vertical)





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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Encoders category:

Click to view products by CUI Devices manufacturer:

Other Similar products are found below:

6-1393048-0 6-1393048-5 62AG22-H5-P 62B22-LP-030C 63K25 63K32 63KS100 63KS64 63R100 63R50-020 63RS256-060 700-09-36
RE12D300-201-1 1393047-3 2-1393047-2 T101-5C2-111-M1 T101-5C3-111-M1 T101-5C4-111-M1 385001M0439 385001M0216
V23401H1409B101 V23401T8002B802 V23401U6019B609 E69-1 E69DF10 E69-FCA 62B11-LP-100S 62B11-LPP-040C 62N11-P
62S22-H9-120S 62S30-L0-200C 62V15-02-080S 63K64 63KS100-040 63R64-050 63RS64 700-16-16 V23401D3002B301
V23401D1001B102 3-1393048-1 63KS128 63KS256 1-1879391-5 GH65C11-N-SO 62S15-M0-P 1393047-1 E69-FCA02 E69-FCA04
E69-DF20 E69-DF2