CUI DEVICES

SERIES: ACZ09 | **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 ≥ 3.5 ms @ 60 rpm
supply voltage	5 V dc max.
output resolution	10, 15, 20 ppr
switch rating	12 V dc, 50 mA (ACZ09BRXE models only)
insulation resistance	100 MΩ, 300 V dc, 1 min.
withstand voltage	300 V ac, 1 minute; no arc, damage or dielectric breakdown

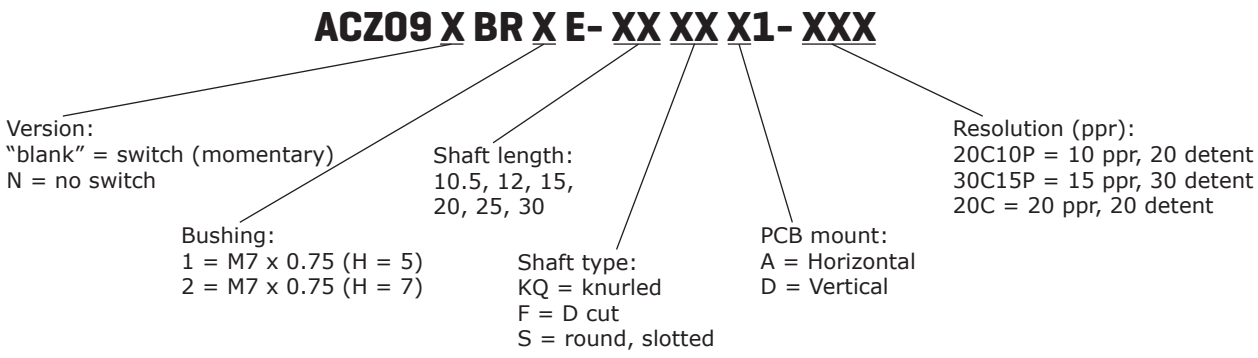
MECHANICAL SPECIFICATIONS

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	(ACZ09BRXE models only)	300		1,500	gf•cm
push switch life	(ACZ09BRXE models only)			50,000	cycles
rotational life				30,000	cycles

ENVIRONMENTAL SPECIFICATIONS

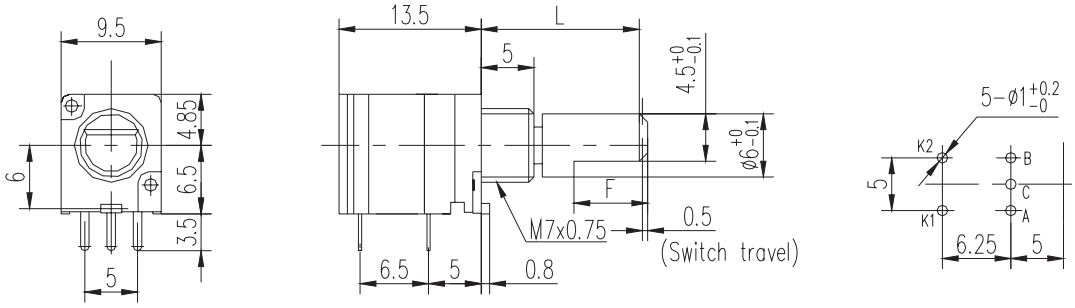
parameter	conditions/description	min	nom	max	units
operating temperature		-10		75	°C
storage temperature		-20		75	°C
humidity		0		95	% RH
vibration	0.75 mm max. travel for 2 hours	10		55	Hz

PART NUMBER KEY

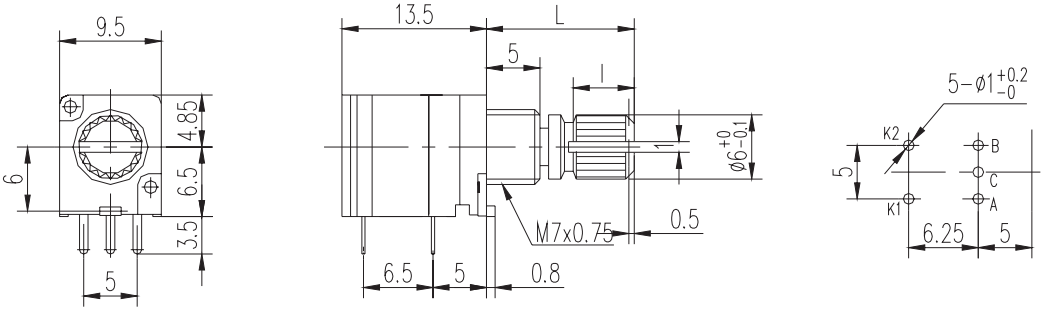


MECHANICAL DRAWING (horizontal)

ACZ09NBRXE

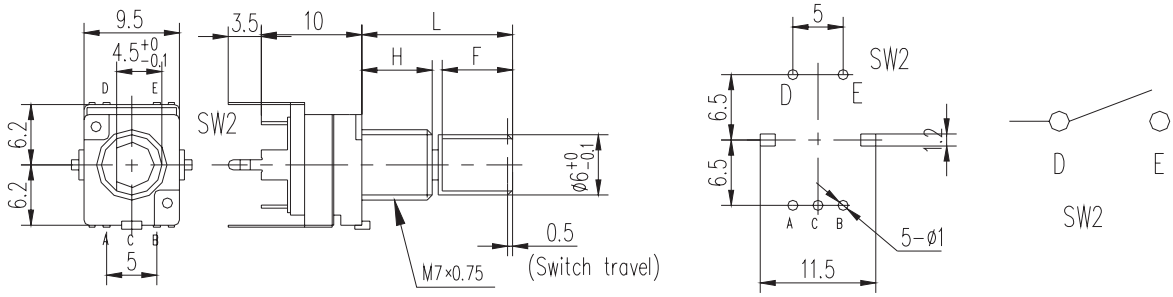


ACZ09BRXE

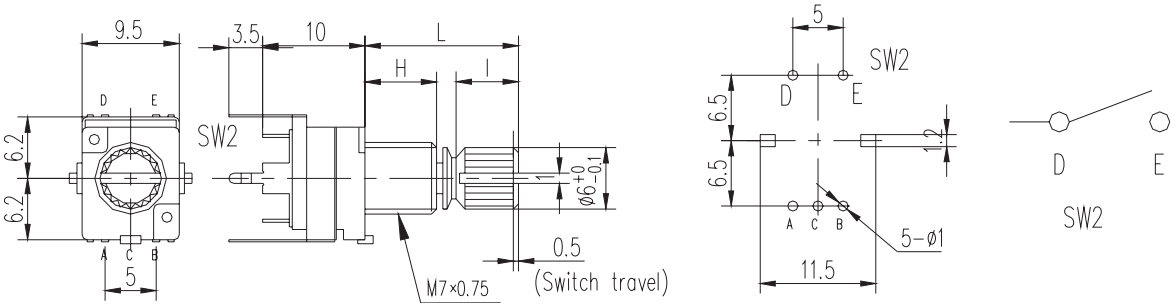


MECHANICAL DRAWING (vertical)

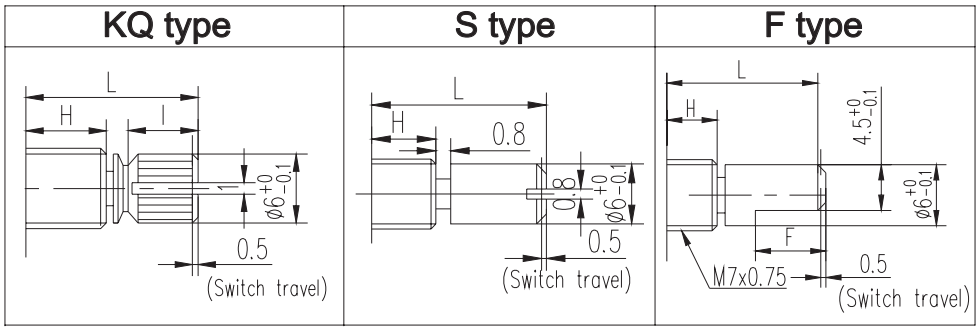
ACZ09NBRXE



ACZ09BRXE



SHAFT OPTIONS



H=5

	15KQ	20KQ	25K Q
L	15	20	25
I	7	10	12

H=7

	15KQ	20KQ	25K Q
L	15	20	25
I	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

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.

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