

SERIES: ACZ16 | **DESCRIPTION:** MECHANICAL INCREMENTAL ENCODER**ELECTRICAL SPECIFICATIONS**

parameter	conditions/description
output waveform	square wave
output signals	A, B phase
current consumption	0.5 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, 24 ppr
insulation resistance	50 V dc, 100 M Ω
withstand voltage	50 V ac

MECHANICAL SPECIFICATIONS

parameter	conditions/description	min	nom	max	units
shaft load	axial			7	kgf
rotational torque	with detent click	50		130	gf•cm
	without detent click	90		210	gf•cm
rotational life				100,000	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

- Notes:
1. It is recommended to use products within 6 months.
 2. For storage conditions, it is recommended to keep away from direct sunlight, corrosive gas, or high humidity conditions.
 3. Use the product as soon as possible once the plastic bag has been unsealed, and reseal the bag if product is not immediately used.
 4. The products are packaged in sealed bags with anti humidity tablets.

PART NUMBER KEY**ACZ16 X BR X E- XX XX X1- XXX**

Version:
 "blank" = switch (momentary)
 N = no switch

Shaft length:
 15, 20, 25

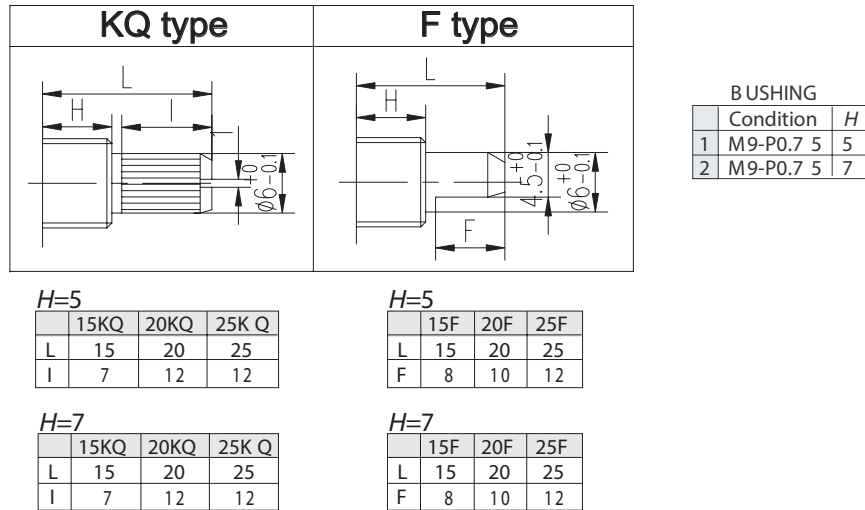
Bushing:
 1 = M9 x 0.75 (H = 5)
 2 = M9 x 0.75 (H = 7)

Shaft
 type:
 KQ, F

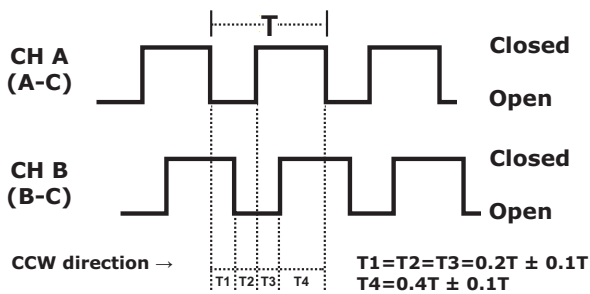
Mounting orientation:
 A = Horizontal
 D = Vertical

Resolution (ppr):
 12 = 12 ppr, no detent
 12C = 12 ppr, 12 detent
 24 = 24 ppr, no detent
 24C = 24 ppr, 24 detent

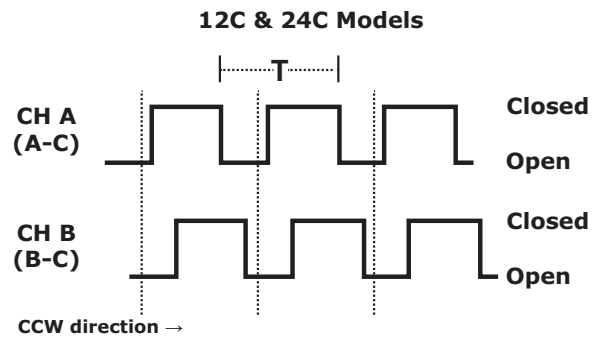
SHAFT OPTIONS



OUTPUT WAVEFORM

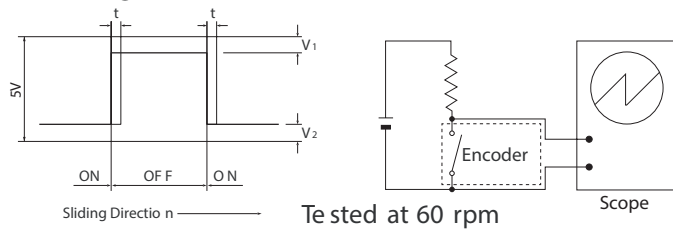


DETENT POSITIONS

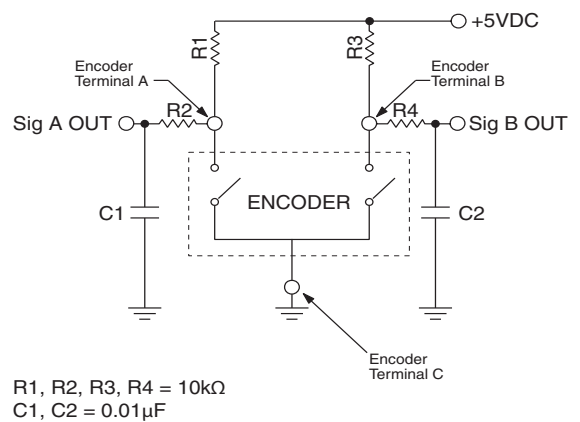


SLIDING NOISE

t = Masking time to avoid chatter (5mS) $V_1 = V_2 = 1V$ max.

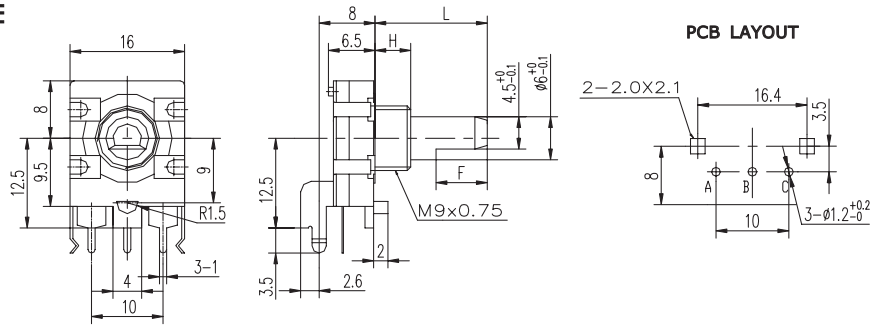


SUGGESTED FILTER

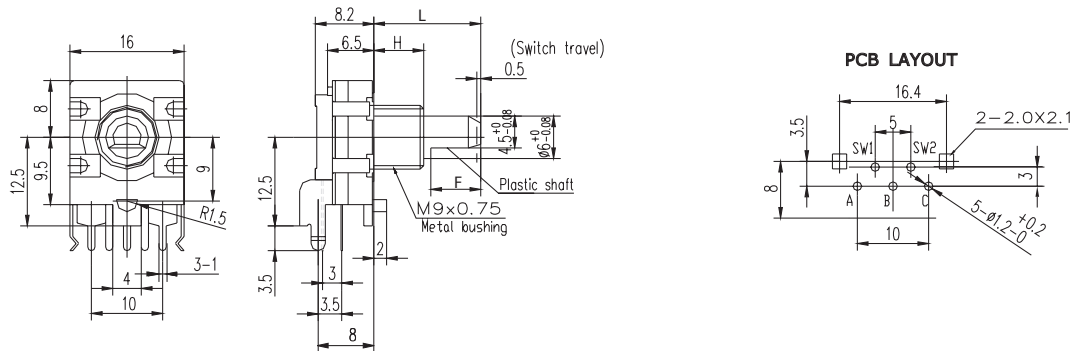


MECHANICAL DRAWING (horizontal)

ACZ16NBRXE

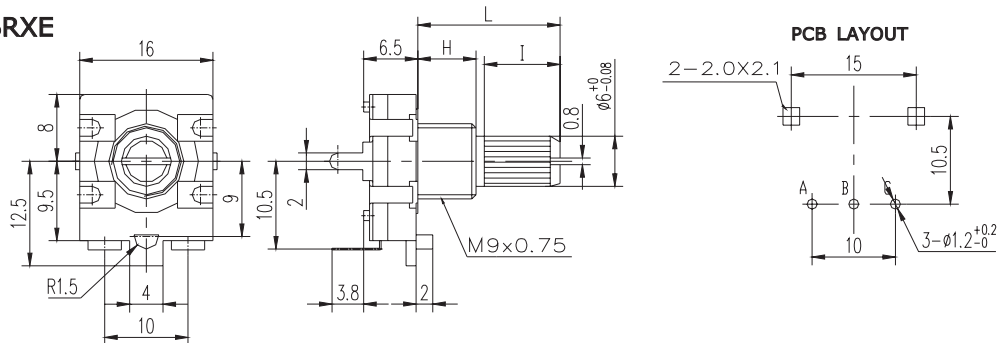


ACZ16BRXE



MECHANICAL DRAWING (vertical)

ACZ16NBRXE



ACZ16BRXE

