



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 ≥ 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

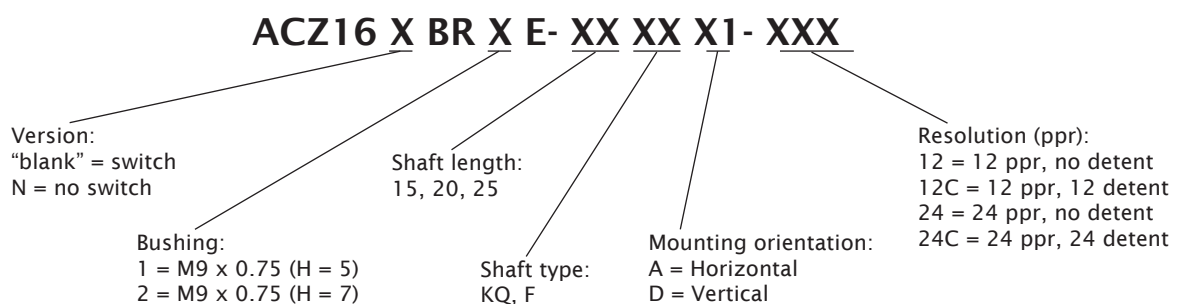
ENVIRONMENTAL SPECIFICATIONS

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.

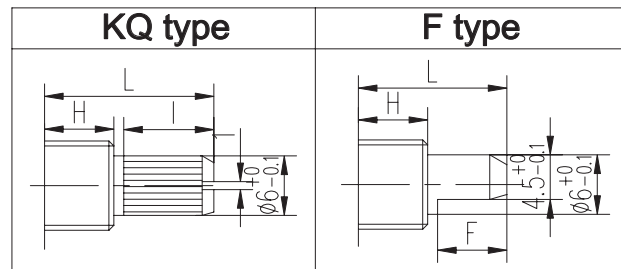
PART NUMBER KEY



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SHAFT OPTIONS



BUSHING

	Condition	H
1	M9-P0.7 5	5
2	M9-P0.7 5	7

H=5

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

H=7

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

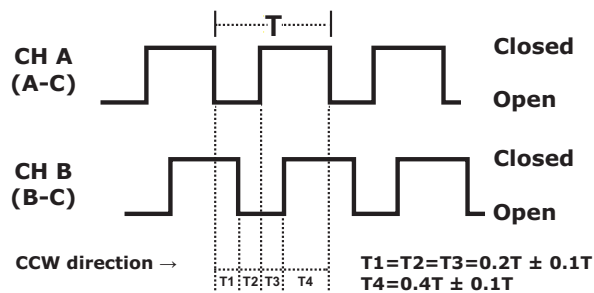
H=5

	15F	20F	25F
L	15	20	25
F	8	10	12

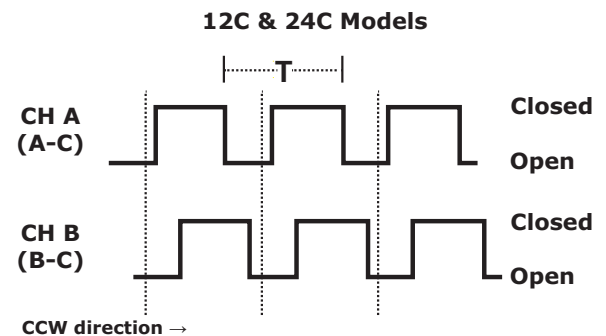
H=7

	15F	20F	25F
L	15	20	25
F	8	10	12

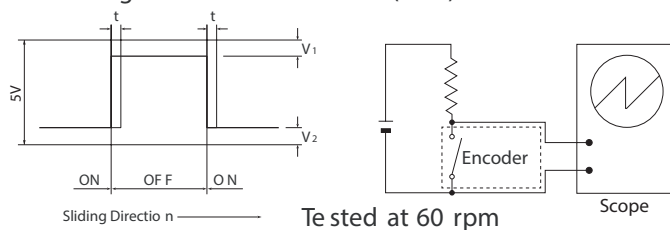
OUTPUT WAVEFORM



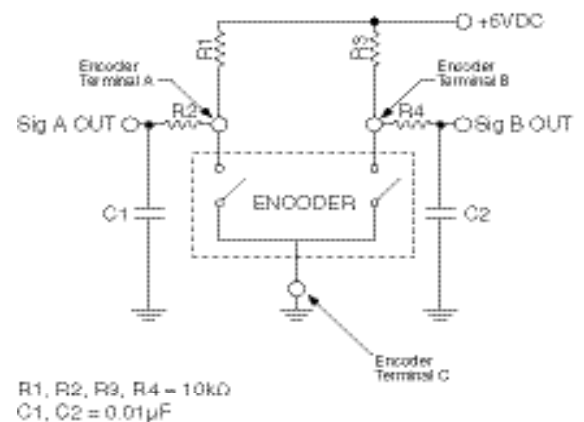
DETENT POSITIONS



SLIDING NOISE

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

SUGGESTED FILTER

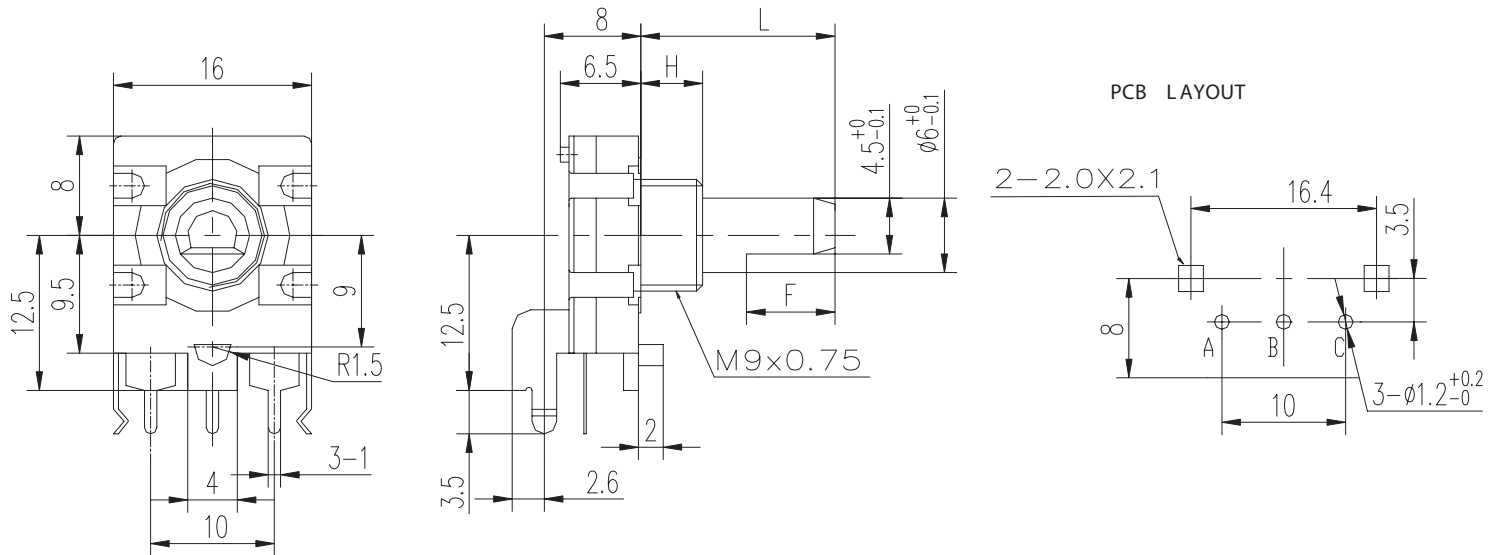




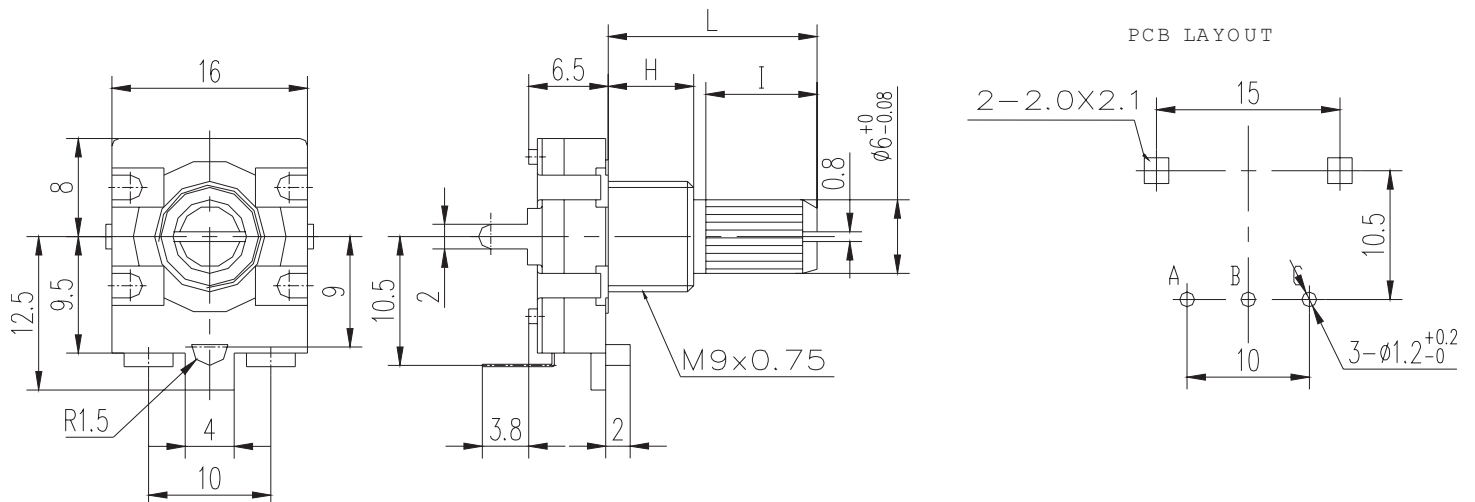
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MECHANICAL DRAWING (horizontal)



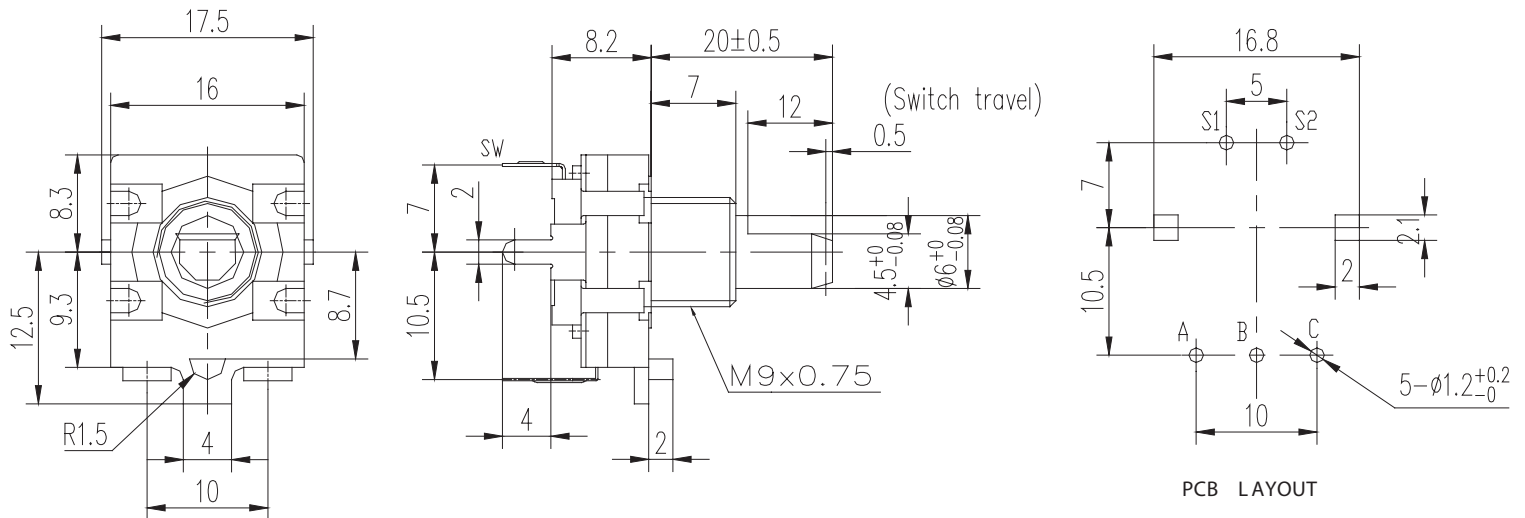
MECHANICAL DRAWING (vertical)



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MECHANICAL DRAWING (vertical, push switch)



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