CUI DEVICES

date 08/2020

PART NUMBER: EC252AB **DESCRIPTION:** rotary encoder

ELECTRICAL SPECIFICATIONS

output waveform		Square wave
output signals		A, B phase
current consumption		20 mA max.
output voltage	“H”	Vcc ~ 0.5 V min.
	“L”	0.7 V max.
output current		-0.1 mA max.
supply voltage		3.3 V dc ± 5%
output resolution (ppr)		50
frequency response		100 Hz

MECHANICAL SPECIFICATIONS

max shaft load,	radial:	1 kgf
	axial:	1 kgf
starting torque		0.4 ±0.2 N·cm max. (41 ±20 gf·cm max.)
rotational angle		360° continuous
maximum speed		120 RPM
rotational life		1,000,000 cycles
weight		20 g

ENVIRONMENTAL SPECIFICATIONS

operating temp	0° to +60° C
storage temp	-20° to +80° C
humidity	85% RH, no condensation
vibration	10 ~ 55 Hz. 1.5 mm, 2 hours
shock	50 G, 6 ms, 3 axes, 3 reps

ORDERING INSTRUCTIONS

EC252X050X

Detent:
A = Without detent
B = With detent

Termination options:
A = Solder holes
B = Connector
C = Cable
D = PC board mount

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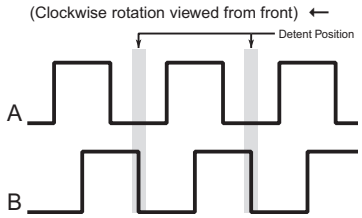
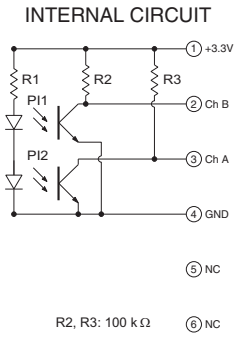
PART NUMBER: EC252AB

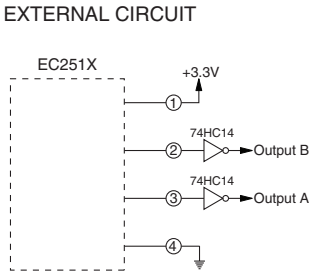
DESCRIPTION: rotary encoder

OUTPUT WAVEFORM

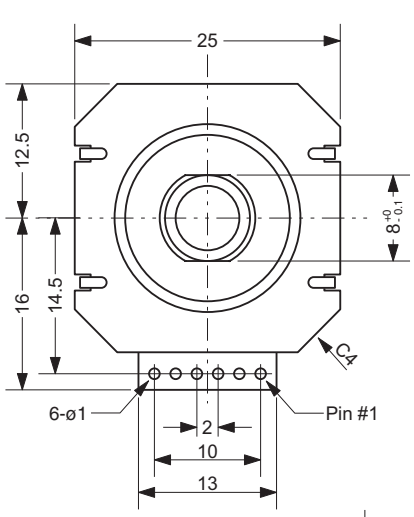


OUTPUT CIRCUIT

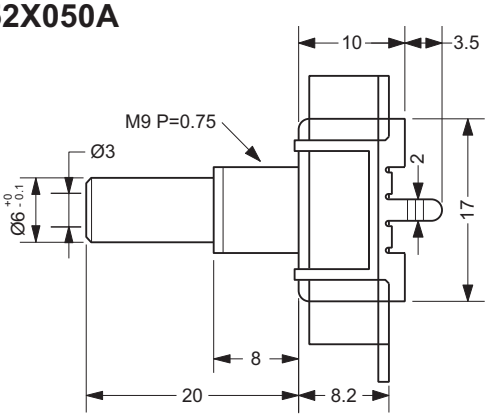




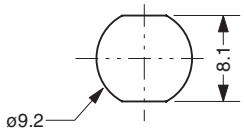
MECHANICAL DRAWING



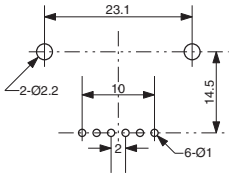
EC252X050A



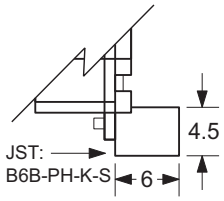
Mounting Hole Dimensions



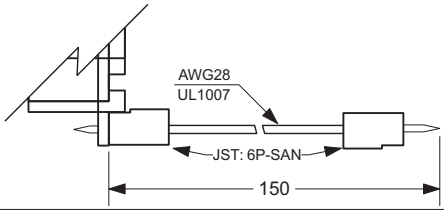
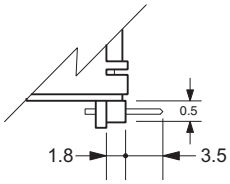
PCB Footprint



EC252X050B



EC252X050C



EC252X050D