

**MODEL:** RING35-201530-TH | **DESCRIPTION:** HOLLOW SHAFT MECHANICAL ENCODER**FEATURES**

- 20 mm height
- haptic detent feedback
- 30K rotational life cycles

**ELECTRICAL**

parameter	conditions/description	min	typ	max	units
power supply			5		V
current consumption				1	mA
output	2-bit quadrature, channel A leads channel B by 90° with clockwise rotation				
output resolution	15 PPR				
insulation resistance	at 250 Vdc	100			MΩ
dielectric strength	for 1 minute at sea level		300		Vac
electrical travel	continuous				
contact bounce	at 15 RPM			2	ms

MECHANICAL

parameter	conditions/description	min	typ	max	units
operating speed				60	RPM
rotational angle	continuous		360		°
detent step angle	30 detents		12		°
rotational torque		100		400	gf·cm
rotational life			30,000		cycles

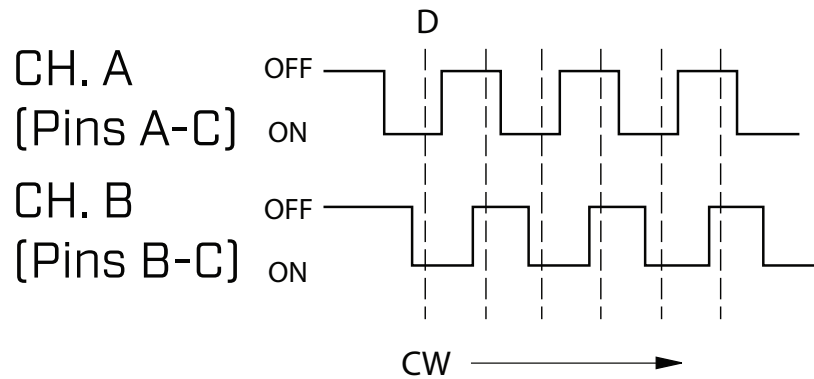
ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		-30		80	°C
storage temperature		-40		85	°C
RoHS	yes				
IP level	IP40				

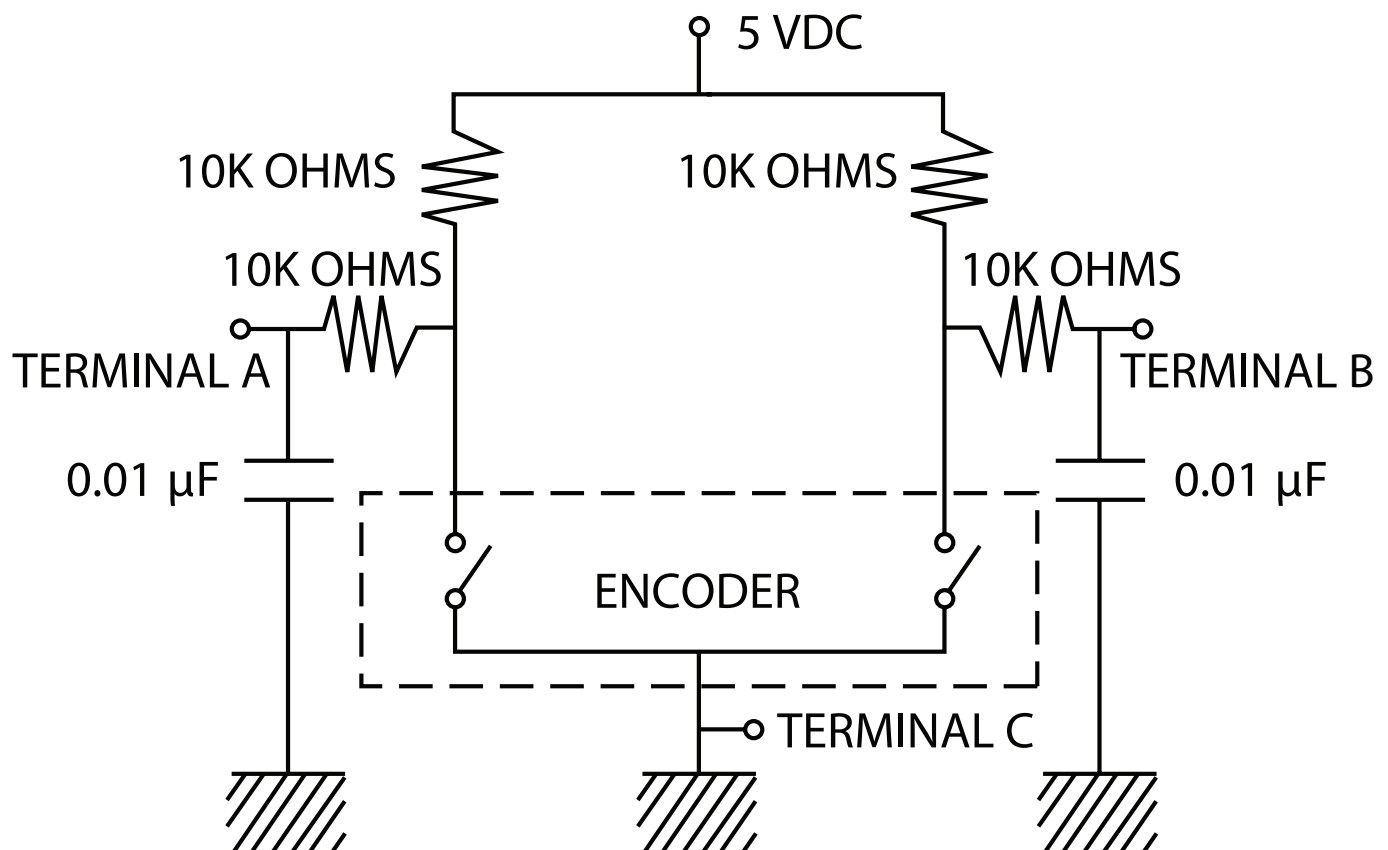
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds		300		°C
wave soldering	for maximum 3 seconds		260		°C

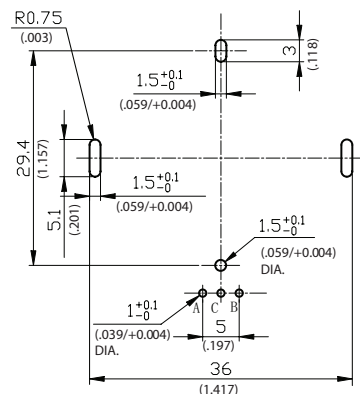
OUTPUT WAVEFORM



RECOMMENDED FILTER



DESCRIPTION	MATERIAL	PLATING/COLOR
rotor	PC (UL94V-2)	black
wiper	C5210	silver
base	PBT (UL94V-2)	white
terminals	C2680	silver
positioning piece	SUS301	---
bracket	cold rolled steel	tin



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REVISION HISTORY

rev.	description	date
1.0	initial release	12/16/2024

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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