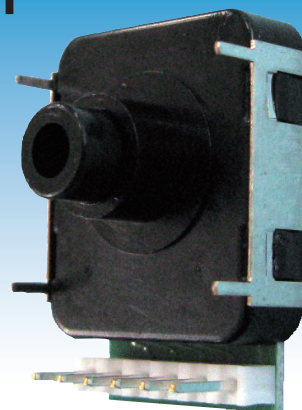


Ultra Slimline Rotary Encoder with Push Switch



RE29 Series



Outline

RE29 series pack compact rotary encoder with dual-functional resin shaft into the space-saving resin enclosure. RE29 is recommended for wide range of machines including measurement components, medical and telecommunication devices.

Features

- Extremely thin (6.6mm) and lightweight (7g)
- Multi-functional with 2 way acting – push switch function and rotating function – shaft
- Eco friendly:
 - 1) Low cost and lesser parts by VA design
 - 2) RoHS compliant
- Designed to be soldered to printed circuit board

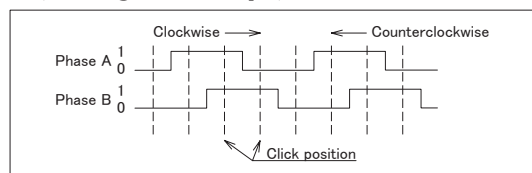
Specifications

1. Electrical and Mechanical specifications			
Items		Rated Value	
Rotary Encoder	Number of Pulses	6 PPR	
	Number of Clicks	24 Clicks	
	Supply Voltage	DC3.3V ± 5% ≤ 20mA 6mA TYP	
		DC5V ± 5% ≤ 10mA 4mA TYP	
	Output Signals	Channel A/B: Square Wave CMOS chip	
	Output Voltage	High	(Supply Voltage – 2.5V) ≤
		Low	≤ 0.5V
Response Frequency	100Hz		
Rotational Torque	4 ± 2 mN · m		
Push switch	Rating of contact	≤ DC12V 0.1 ~ 10mA (Resistance load)	
	Travel of switch	0.2 ± 0.1 mm	
	Operational Force	5 ± 2 N	
Weight		7g	

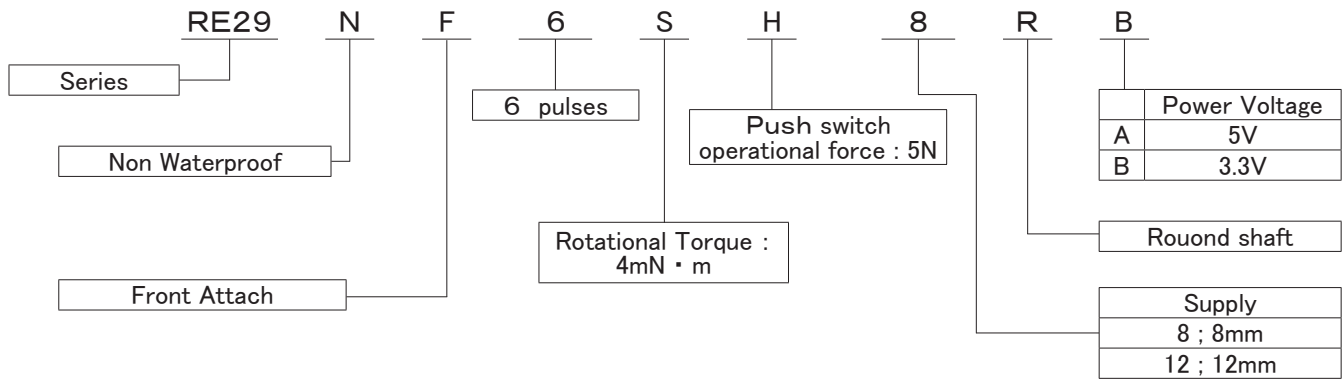
2. Reliability and Environmental Specifications		
Items		Rated Value
Durability of operating area	Thrust direction	100N
	Push Pull	50N
	Radial	1N · m
Rotational durability		1 million strokes (No load)
Screw Torque		Not more than 1N · m
Heat resistance of solder	Solder bit temp.: MAX 350°C	Within 3 seconds for each terminal
Operating temperature		-0°C ~ +55°C 32F ~ 131F
Storage temperature		- 40°C ~ +85°C - 40F ~ 185F

Output Waveform

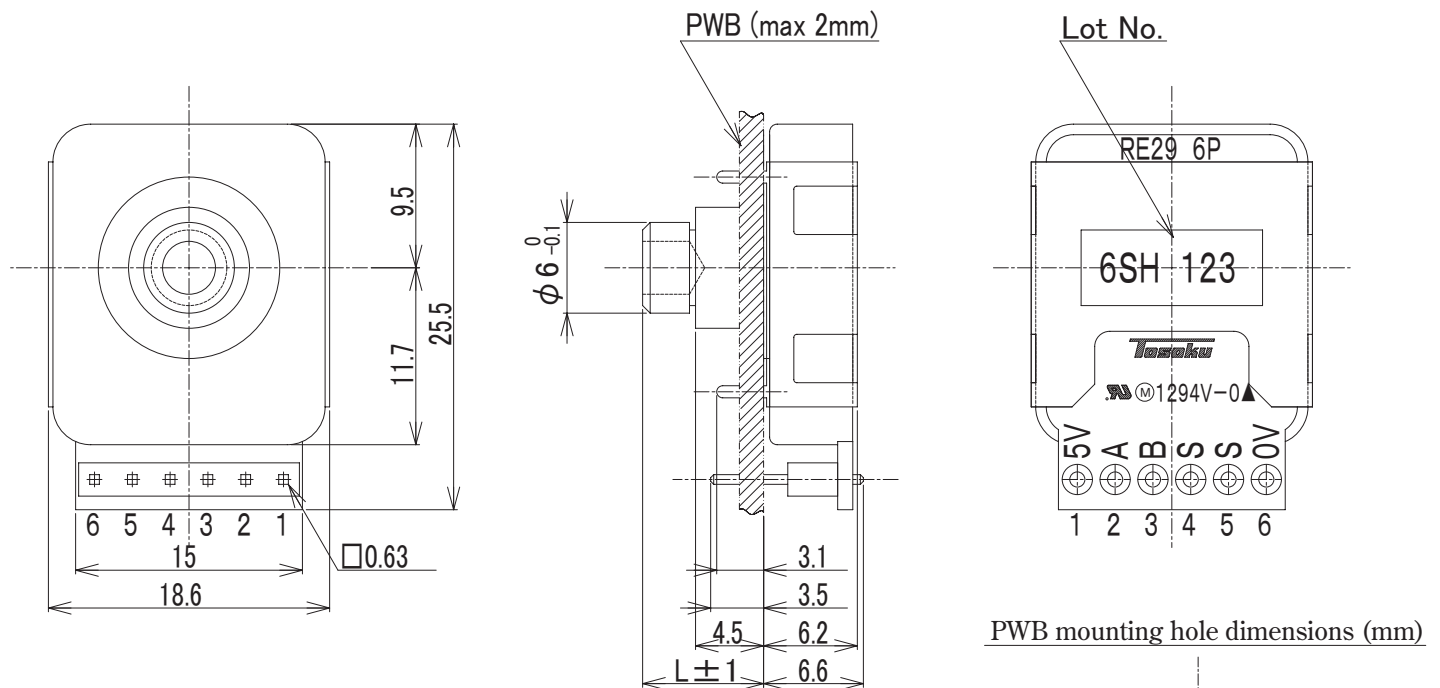
- 1) Turning the shaft clockwise will generate the signal A when the signal B outputs a low voltage (0);
- 2) Rotating the shaft counter-clockwise will generate the signal A when the signal B outputs a high voltage(1);
- 3) Either signal A or B switches from 0→1 or 1→0 for every single click (Quad edge evaluation spec).



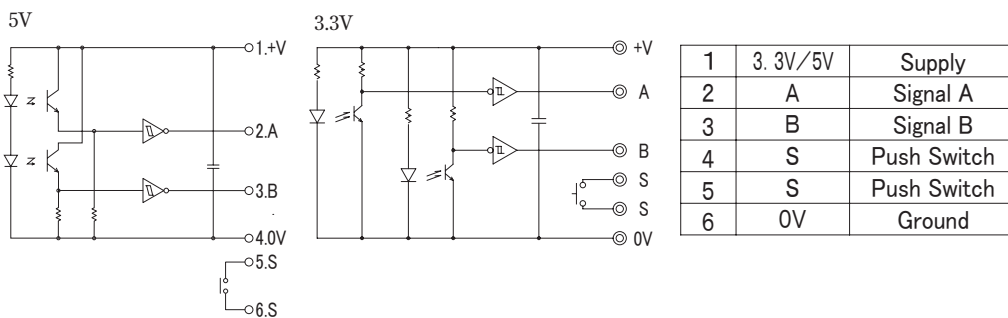
Part Number Designation



Dimensions (mm)



Circuitry



Precautions

Wiring	Use buffering amplifier when extending lead wire over 30cm.
Soldering	Do not put a load on the terminal area during and immediately after soldering.
Operation	Do not use flow/reflow soldering machines.
Power	Use under specified power voltage and connect properly.

Warranty

- 1 year from the date of shipment