

OPTICAL CODE ENCODER SWITCH

BTCE26 SERIES

26mm diameter optical code encoder switch

NEW



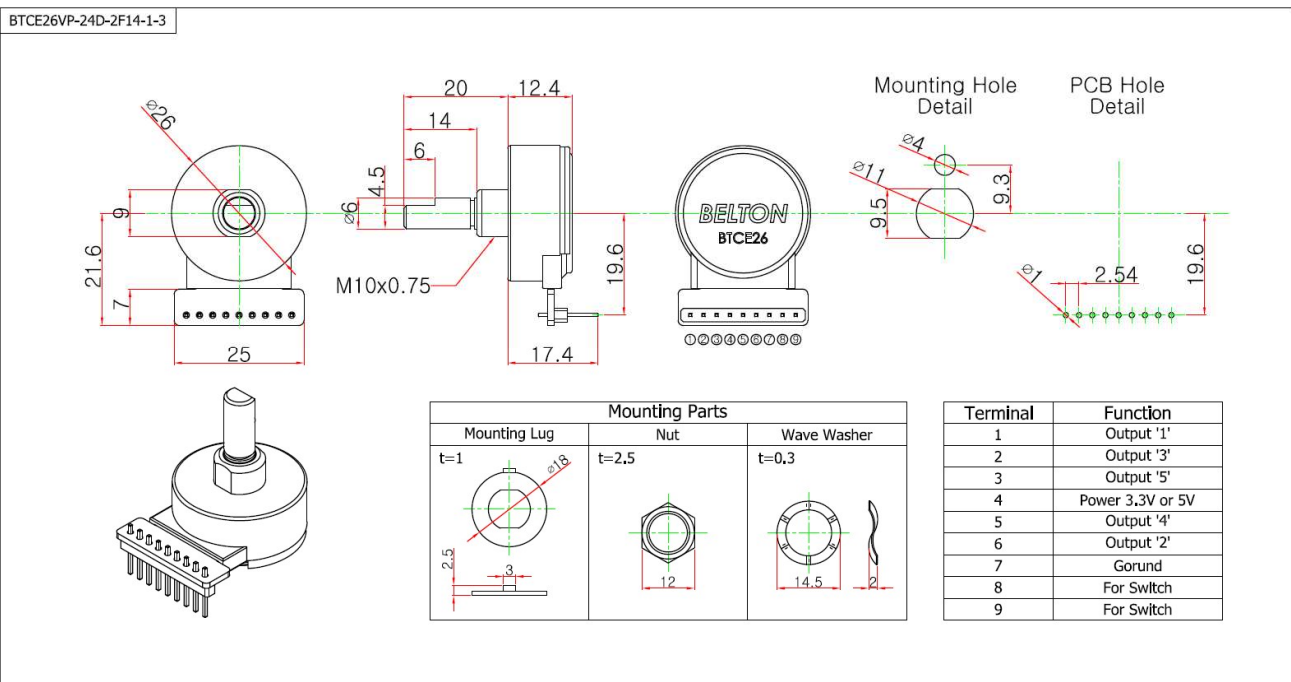
Features

- Metal housing with Metal shaft
- Absolute Position Sensing
- Available in 16, 24 positions
- Over 1 million rotational cycles
- 3 kinds of torque options

Applications

- Machine tools
- Construction site
- Plant construction
- Industrial applications
- Control panel

Standard Dimensions



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Electrical specifications

- Supplying voltage : DC 3.3V or DC 5V \pm 10%
- Supplying current : 85mA Max. at 5V DC
- Contact Resistance : Contactless
- Insulation resistance : 100 Mohms on 250V DC
- Withstanding voltage : 1min. at 300V AC
- Rating of Push-button switch : 0.1 ~ 10mA, 12V DC
- Electrical life : Over 1,000,000 cycles

Mechanical specifications

- Mechanical click :
16 positions per rotation = 22.5°
24 positions per rotation = 15°
- Rotational torque :
Style S : 750 gf·cm \pm 100 gf·cm
Style D : 1,600 gf·cm \pm 100 gf·cm
Style T : 2,100 gf·cm \pm 100 gf·cm
- Mechanical Rotational life : Over 1,000,000 cycles
- Operating force of Push-button switch : 1,000 gf·cm \pm 300 gf·cm
- Travel of Push-button switch : 0.25 ~ 0.35mm
- Mechanical life of Push-button switch : Over 1,000,000 times
- Contact resistance of Push-button switch : 10 Ω max.
- Strength of End stop : Over 5 Kgf.cm for 1 min.

Durability characteristics

- Over 1,000,000 cycles of operation shall be performed under operating temp. range continuously at rate of 15 ~ 20 cycles/minute with load

Humidity characteristics

- During 48 hours, put specimen in the chamber which is controlled at temp. 40 \pm 2°C, moisture 90 ~ 95% condition, and then exposure to normal atmospheric condition for 1 hour

Solder dipping time

- Within 3 sec. at 280°C

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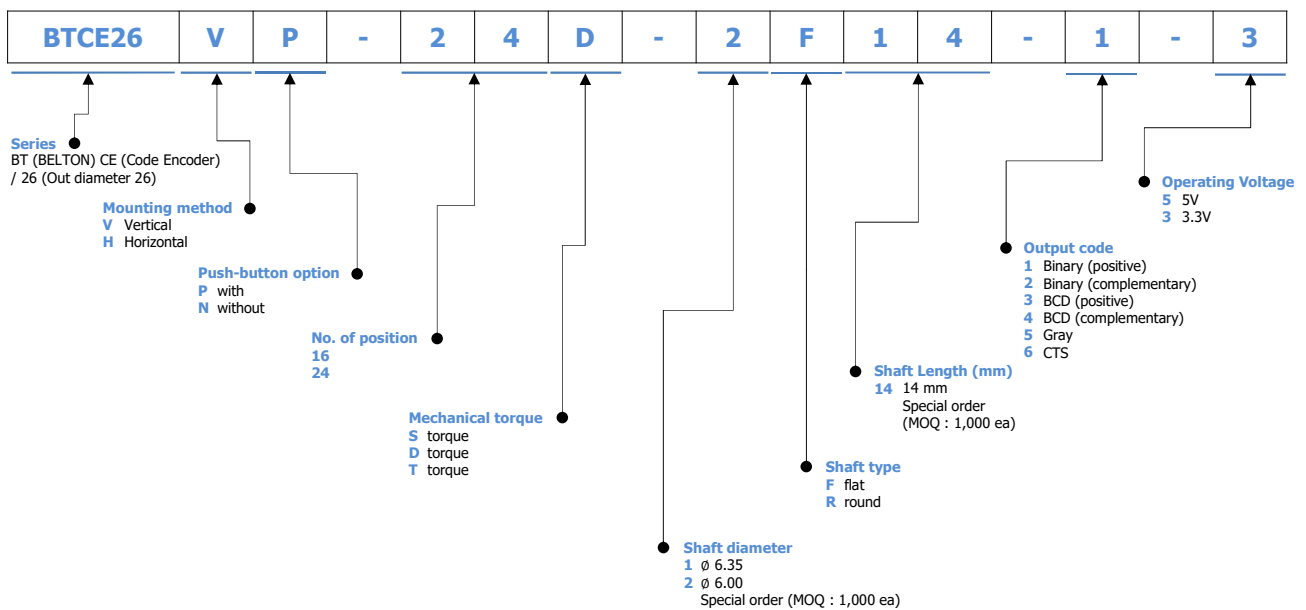
Operating temperature range

- 0°C ~ +50°C

Storage temperature range

- - 20°C ~ +80°C

Suggested Ordering Code



Output code

Number of Positions																									24
																									18
																									16
																									12
																									10
																									8
CODE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BINARY (positive)	1		●		●		●		●		●		●		●		●		●		●		●		●
	2			●	●			●	●			●	●			●	●			●	●			●	●
	3					●	●	●	●					●	●	●	●					●	●	●	●
	4									●	●	●	●	●	●	●	●	●							
	5																		●	●	●	●	●	●	●