

5-Directional Switch + Rotary Encoder
Cursor Wheel (Wheel Push Type) CW20

Technology to Inspire Innovation

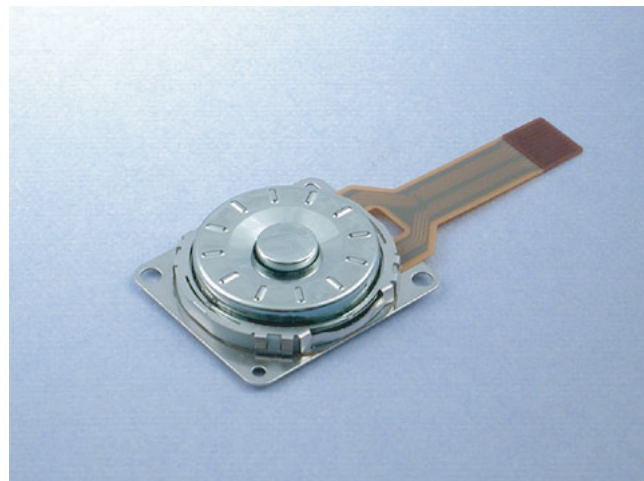


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The Cursor Wheel CW20 is a multifunctional switch composed of a compact 5-directional switch and a rotary encoder, enabling both cursor and rotary operations. Its wheel acts as 4-directional switch offers a high operational performance with the small footprint. The CW20 is optimal for devices required downsizing and higher performance. The rotary encoder has a feel of 12 clicks per cycle, and outputs two-phase 12-pulse signal. The mechanism portion is thin design with 2.2 mm or less, and used a contact type mechanism to realize low price and low profile.

The CW20 is designed in 15 mm size that is easy to operate with a thumb. Use our custom design capability offering key-top designs tailored to your product, and modules combining other switches and input devices.

*The 5-directional switch enables 4-directional and center push-on switch operations.



■ **Features**

- Thin design with 2.2 mm or less mechanism portion.
- Wheel acts as 4-directional switch offers an easy operation.
- Compact size suitable for reduced operation spaces of devices with large LCD screens.
- 15 mm diameter for comfortable thumb operation.
- Sure click operation with a rattle-free key-top.

■ **Applications**

- DSC, DVC, Digital Audio Player

■ **Specifications**

5-Directional Switch

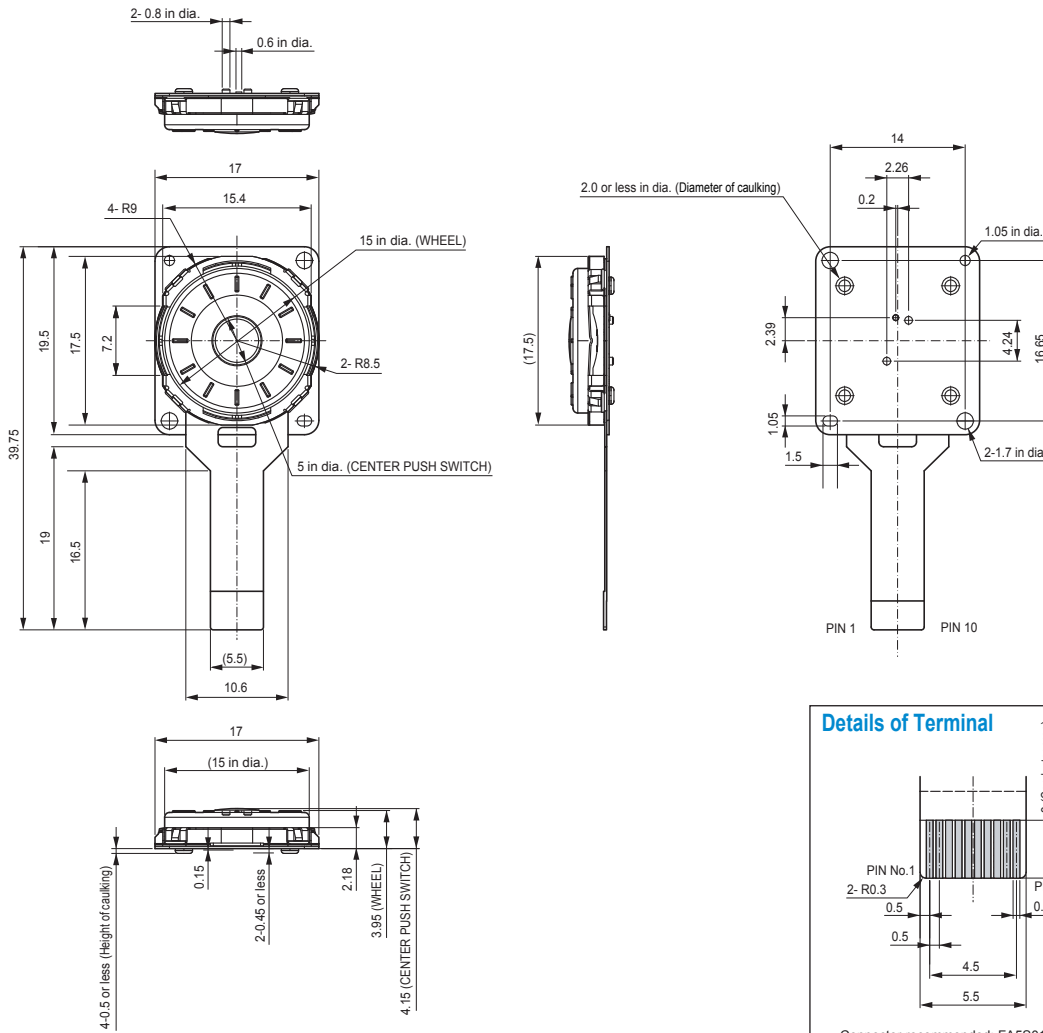
Operating Force/Travel	2.0 N / 0.3 mm (4-Directional Switch)
	1.8 N / 0.2 mm (Center Push-on Switch)
Contact Rating	1 mA (5 VDC)
Insulation Resistance	100 megohms min. (100 VDC)
Contact Resistance	100 ohms max.
Bounce	10 ms max.

Rotary Encoder

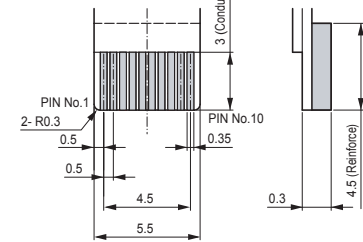
Rotate Angle	360 degrees
Number of Clicks	12
Contact Rating	1 mA (5 VDC)
Number of Pulses	2-phase (Phase A and B) type, 12 pulses

Made-to-order Product

■ Outline Dimensions (unit: mm)



Details of Terminal



Connector recommended: FA5S010HP1(JAE)

Before placing an order

- The values specified in this catalogue are only for reference. The products and specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
- Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
- The products presented in this catalog are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

- Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
- We may separately give you our support with a quality assurance program that you specify, when you think of a use such as:
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.



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