

TC10 SERIES

PRODUCT FEATURES

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- Compact design
- Non-contacting Hall sensor, long service life
- Spring return
- Optional voltage 9~32Vdc
- Protection class ip67 for electricals

MARKET FOCUS

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- Drive proportional valve, achieve electro-hydraulic control function,
- Applicable in various engineering machinery, hoisting machinery, earth-moving machinery, aerial working machinery



Thumb-operated joystick

TECHNICAL SPECIFICATIONS

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Mechanical data

Travel angle: $\pm 30^\circ$
 Operating force: 2.4~5.8N
 Maximum allowable force: 30N
 Service life: 5 million cycles
 Weight: 35g

Electrical data

Supply voltage: $5.0 \pm 0.5\text{Vdc}$, 或 $9\sim 32\text{Vdc}$
 Power current consumption: $< 11\text{mA}$ (每通道)
 Center voltage: $2.5 \pm 0.1\text{V}$
 Output linearity tolerance: $\pm 3\%$
 Maximum overload voltage: 20Vdc
 Maximum reverse voltage: -10Vdc
 Load resistance: $> 10\text{K}\Omega$
 Insulation Resistance: $> 1000\text{M}\Omega$
 EMC: 100V/m

Environmental data

Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}$	Storage temperature $-40^\circ\text{C} \sim +85^\circ\text{C}$	Protection class (IP) IP67 (above for electronics)
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ORDERING CODES

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TC10 - ① - ② - ③ - ④

① Rotation type

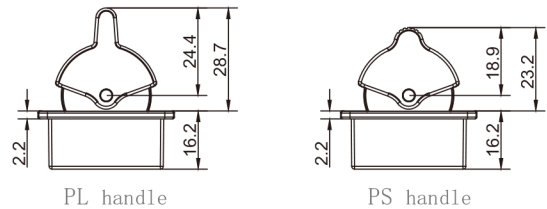
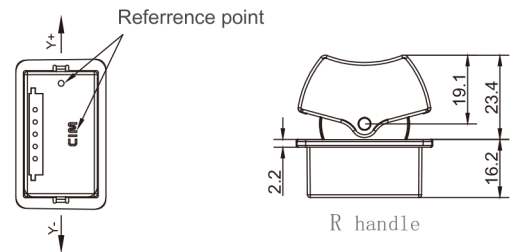
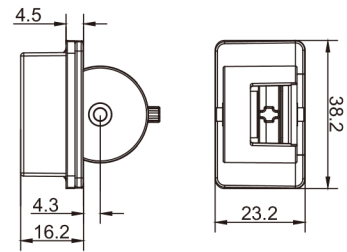
C Center operation (end-center-end)
 E Operation from Y-to Y+ direction (end-end)

③ Handle options

R Rocker actuator
 PL Paddle actuator, long
 PS Paddle actuator, short

SHAPE DIMENSIONS

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② Output signal

H11 Supply voltage 5Vdc, 0.5~4.5V potentiometer output
 H21 Supply voltage 5Vdc, 0.5~4.5V and 4.5~0.5V redundant potentiometer output
 W11 Supply voltage 9~32Vdc, 0.5~4.5V potentiometer output
 W21 Supply voltage 9~32Vdc, 0.5~4.5V and 4.5~0.5V redundant potentiometer output

④ Wiring

L Cable wiring (AF200, 28#, length 300mm)

