F200 Series Hall Sensor Accelerator Pedal

Product Features

- Hall sensor;
- 5 to 48V wide range input voltage;
- With a set of switch 125V5A, 250V3A;
- Mechanical spring-return operation;
- Excellent analog proportional control or switch signal output;
- Easy to install, flexible operation, maintenance-free;
- CE approved, RoHS 2011/65/EU, Annex II, including (EU) 2015/863 compliant.

Application

RunnTech F200 series Hall accelerator pedal is mainly used in hydraulic proportional and variable frequency motor control, such as Rotary Drilling Rig, Aerial Fire Engine, Battery Cars.

Technical Information

Environment Parameter		
Storage Temperature	-50°C...+80°C	
Operating Temperature	-40°C...+80°C	
Protection Grade	IP64	
Vibration	Amplitude±3g, Frequency: 10Hz-200Hz	
Impact	20g, 6ms, Semi-sinusoidal	
EMC Anti-interference Rank	100V/m, 30MHz to 1GHz, 80% sine-wave modulation, meet EN50082-2 (1995) standard	
EMC Emission Rank	Rank B, 150KHz to 30MHz, meet EN50081-2 (1993) standard	
ESD Anti-interference Rank	Rank 4, 8KV contact discharge, 15KV air discharge, meet IEC61000-4-2 standard	
Mechanical Parameter		
Mechanical Angle	Potentiometer: ±32°, Hall sensor: ±20°	
Operating Torque	5N (50N max)	
Mechanical Life	5 million	
Mechanical Error	± 0.5°	
Electrical Parameter		
Hall Sensor	Power Supply Voltage	5±0.5V DC
	Power Supply Current Consumption	6.5mA/hall sensor
	Resolution Ratio	infinite
	Maximum Voltage	15VDC
	Reversed Polarity Maximum Voltage	14.5VDC
	Load Resistance	5KΩ
	Median Voltage (no-load)	48 - 52%Vs

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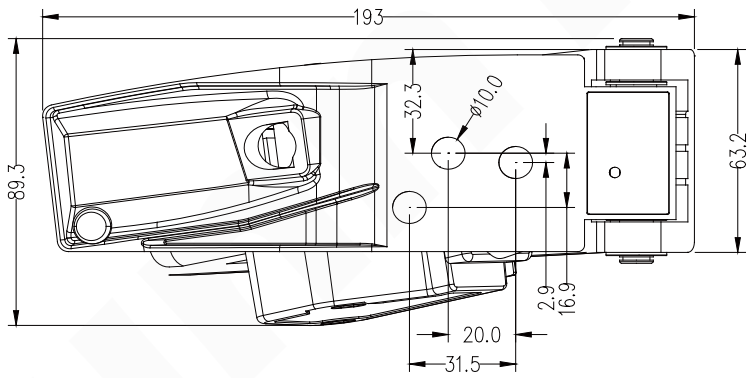
Product Configuration

No.	Item	Content	
1	Serial Number	F200 series Hall sensor accelerator pedal	
2	Operation Mode	**T** - spring return	
3	Electrical Output Form	Hall Sensor	**HV1**: DC 5V, 0...5V
			HV2: DC 5V, 0.5...4.5V
			HV3: DC 5V, 1.0...4.0V
			HV4: DC 5V, 1.25...3.75V
4	Quantity of Switch Signal	**01** (only 1 directional switch signal)	
5	Switch Signal Closed Position	Refer to Table 4-3 **Directional Switch Signal Closed Position** (Page 03)	

F200 - T - HV1 - 01 (1)

① serial number
② operation mode
③ electrical output form
④ quantity of switch signal
⑤ switch signal closed position

Product Installation



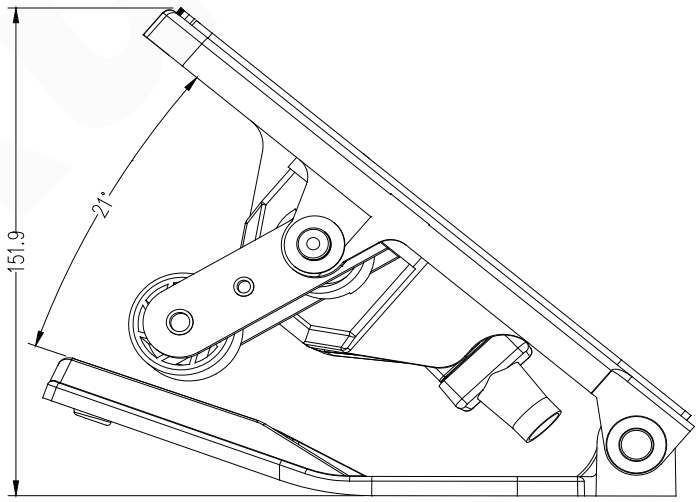
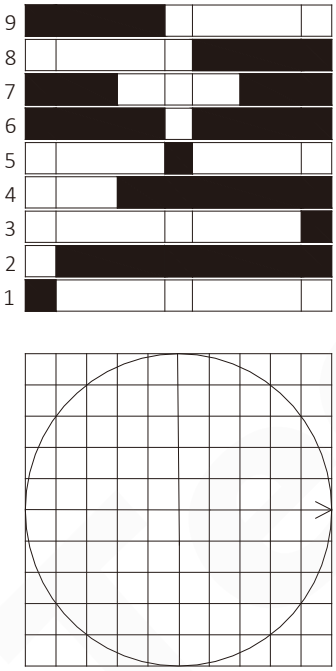


Table 4-3 Directional Switch Signal Closed Position

Entity on behalf of the switch is closed



Analog output refer to the following figure

Electrical Output Form	Hall Sensor	**HV1**: DC 5V, 0...5V
		HV2: DC 5V, 0.5...4.5V
		HV3: DC 5V, 1.0...4.0V
		HV4: DC 5V, 1.25...3.75V