

H80FCL

● With a hall effect IC

● Nomenclature

S H 80 FCL - S 2 DF K - 00000

● **S**
means special mechanical specifications not applicable to our standard.

● **H**
means hall effect IC type potentiometer is incorporated.

● **80**
means approx. size of base housing in mm.

● **FCL**
means Foot controller. L means small and compact-sized pedal type.

● **00000**
Special part number:
In case we produce customized product, we add 4-digit or 5-digit branch number.

● **With kick-down device:**
The operating force is increased at about 5° from the end of stepping.

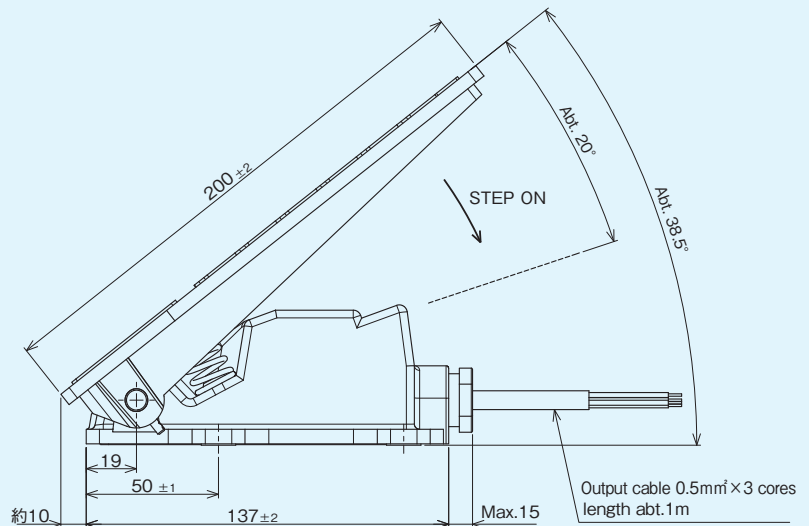
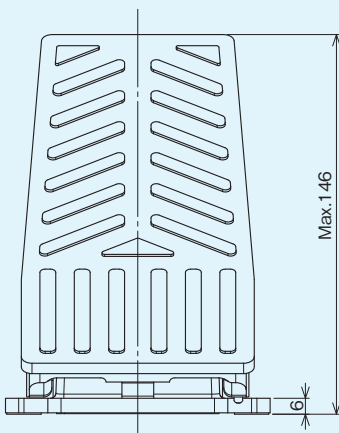
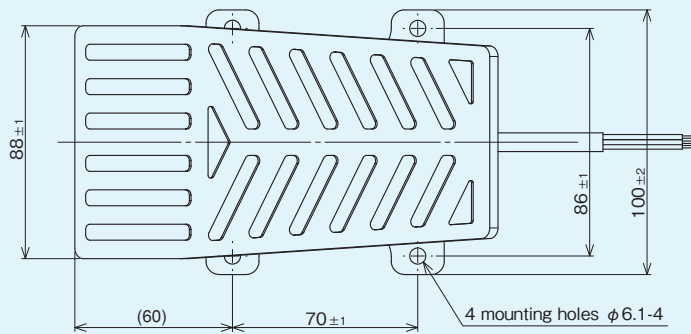
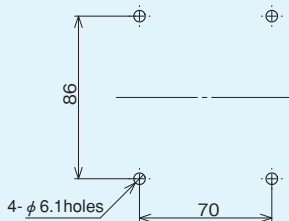
● **① Number of switches to be incorporated (Option).**
1...1 switch incorporated.
2...2 switches incorporated.

● **② Rating of switch:**
D...micro-switch

● **Output characteristic**
S...single output X...dual cross output P...dual parallel output

● Standard Dimensions

■ Panel Arrangements





H80FCL-S

STANDARD SPECIFICATIONS

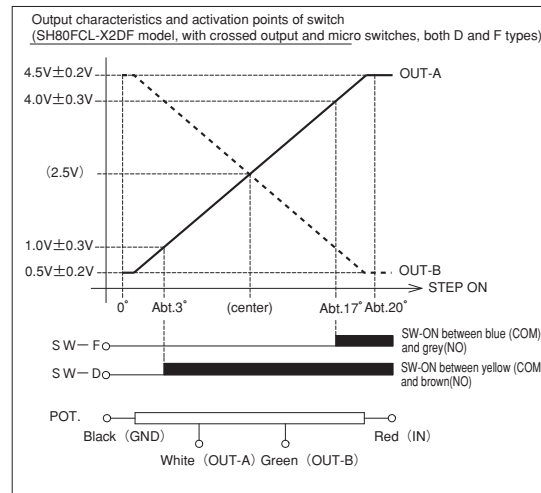
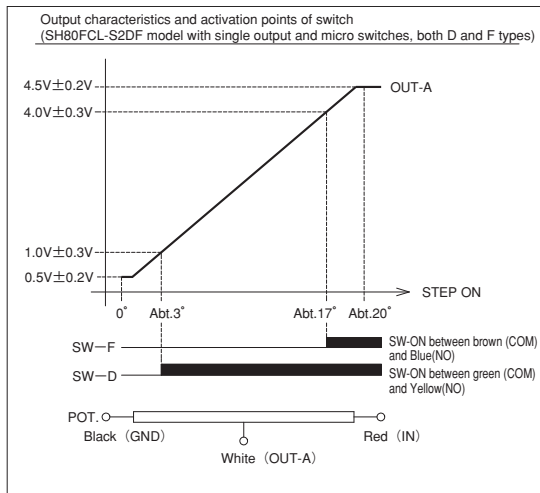
Mechanical Performance

Operating method	Stepping pedal type
Operating angle	Approx.20°C
Operating force	Standard automatic spring return device Abt.10N・60N(Abt.1,000gf.~6,000gf.)
Operating temperature range	-20°C~+65°C
Vibration	10~55Hz 98m/s ²
Shock	294m/s ² (11ms)
Life expectancy	Approx.2,000,000 operations
Mass	Approx.850g

Electrical Performance

Hall effect IC type potentiometer is incorporated	SHSM18E, hall effect IC type single-turn contactless potentiometer ● Applied voltage: 5V±10% D.C. ● Output range: Approx.10%~90% Vin ● Independent linearity tolerance: ±3%
Dielectric strength	1 minute at 250V.A.C.
Insulation resistance	Over 100MΩ at 250V.D.C.
EMS durability	100V/m(80MHz~1GHz 1KHz sine-wave 80%AM modulation)
ESD durability	±8KV contact discharge/±15KV aerial discharge (Based on IEC61000-4-2)

Output Characteristics and Terminal Connection Diagram



Special Specifications Available

- **With switch incorporated**
D version switch: SW "ON" at about 3° from the beginning of stepping under 1V±0.3V.D.C. output.
F version switch: SW "ON" at about 3° from the end of stepping under 4V±0.3V.D.C. output.
- **With kick-down device**
Operating force is increased at about 5° from the end of stepping (Max. approx. 250N)
- **With special output**
Dual parallel output, Dual cross output.
- **Potentiometer with conductive plastic element**
Type FCP22E is incorporated.

Note : For output characteristics, activation points of switch and terminal connection diagrams, please see above.