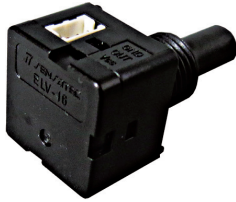


Model **ELV-1605XJ** For Handles Rotation/Position Sensors (Potentiometers)



Model List	Electrical Effective Angle
ELV-1605XJ	$\pm 70^\circ$

Application

- Controller of the game machine
- Handle potentiometer for joysticks
- Handle potentiometer for pachinko machines

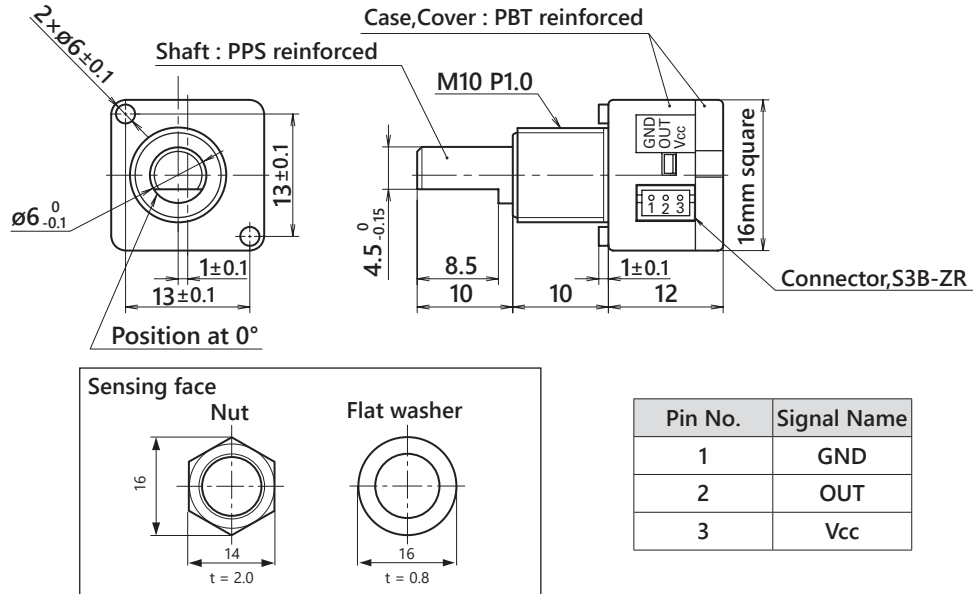
Features

- Sensor with no contacts to avoid poor contact problems and increase the lifespan. The sensor can be reused multiple times.
- Product with a long lifespan of more than 20 million rotations.
- Perfect to control direct acting or rotary solenoid.
- No need for additional adjustment when embedded or mounted.

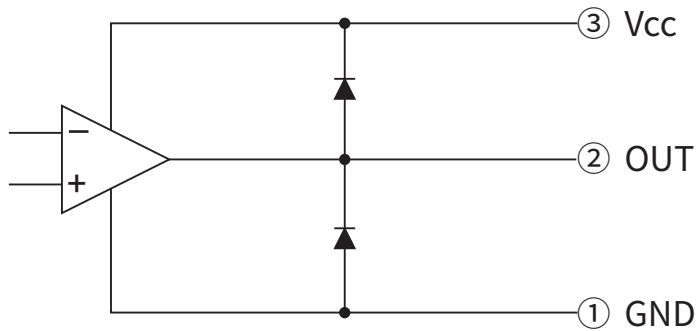
Rating / Performance

Model	ELV-1605XJ
Electrical Effective Angle	$\pm 70^\circ$
Power Voltage	5 V DC $\pm 5\%$
Power Consumption	15 mA DC or less (Without load and within the electrical effective angle)
Output Voltage	0.68 V to 4.28 V DC $\pm 7\%$ FS
Linearity	$\pm 5\%$ FS or less
Load Resistance	10 k Ω or more
Lifespan	20 million rotations or more (With 20 rotation/min continuously or less at normal temperature, no load, and within the electrical effective angle range)
Mechanical Rotation Angle	360° (Endless)
Rotation Torque	0.5 N·cm (0.05 kgf·cm) or less (No screw mounting)
Shaft Strength (Compressive)	9.8 N (1 kgf) or more
Shaft Strength (Tensile)	9.8 N (1 kgf) or more
Temperature Range	-10 to 60 °C (-15 to 65 °C during storage) (Without dew condensation)
Humidity Range	35 to 90 % RH (35 to 90 % RH during storage) (Without dew condensation)
Breakdown Voltage	500 V AC, 50/60 Hz for 1 min (Between live parts and the case)
Insulation Resistance	100 M Ω or more, at 500 V DC megger (Between live parts and the case)
Vibration Resistance	Durability : 10 to 55 Hz, Double amplitude: 1.5 mm in X-, Y-, and Z-direction, each 2 hours (Device not powered)
Shock Resistance	Durability : 500 m/s ² (Approx. 50 G) in X-, Y-, and Z-direction, each 3 times (Device not powered)
Ingress Protection	IP50
Case Material	Case,Cover : PBT, Shaft : PPS
Connector	Connector : S3B-ZR-SM2-TF (3-pin)(from J.S.T. Mfg. Co., Ltd.) [Connections] Housing : ZHR-3, Contact : SZH-002T-P0.5 (from J.S.T. Mfg. Co., Ltd.)
Weight	Approx. 5 g
Accessories	1 nut , 1 flat washer
Options (Sold Separately)	Connector harness : SZH-3-300

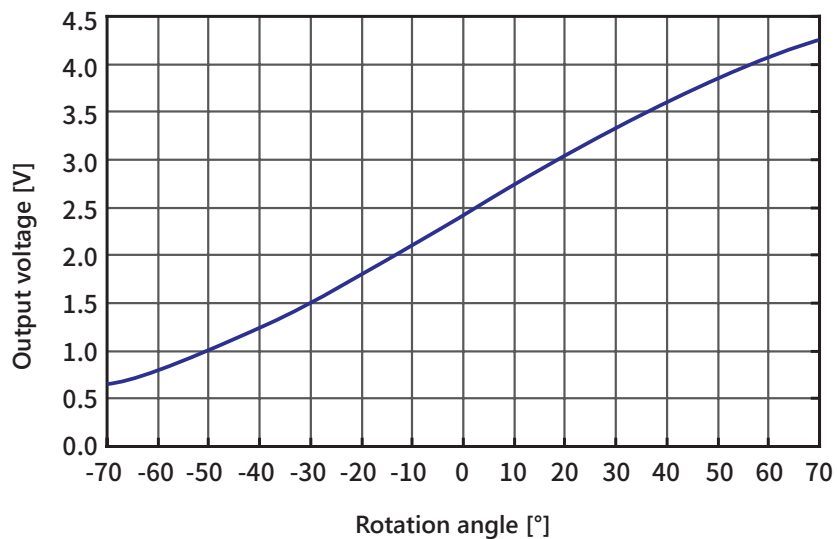
Dimensions



Output Circuit



Output Characteristics (Rotation angle-Output Voltage)(Typical Example)



Precautions During Use

1. For precautions, refer to "General Precautions" for digital potentiometer.