**NSO-0**
**MILL DUTY 16 AMP**
**ROTARY MASTER SWITCHES**

**Construction:**
The TYPE NSO-0 Rotary Master Switch features the same rugged design components and versatility as the NSO series of Joysticks. The NSO-0 provides directional, precise proportional speed and step control of AC/DC drives and Electro-Hydraulic Valves.

**Application:**
Applications include In-plant Process Control, Mining Vehicles, Conveyor and Lift Systems.

**Features:**
- **Rugged Construction:** Brass Bearings and Square Steel Operating Shaft.
- **Mechanical Life:** 20 million cycles with Friction Brake.
- **Design Flexibility:** Combination of custom programmable Contacts, Detents, Spring Return, Potentiometers, and Electronics.
- **Handles:** Teardrop and Chrome Steel Ball Lever.
- **Precise Step Control:** Up to 7-0-7 steps or 0-16 individually detented positions.
- **Contacts:** (10) SNAP in 16A 240VAC double pole field replaceable contacts. Gold dry circuit contacts available upon request.
- **Potentiometers:** 0.5 watt 5 million revolution conductive plastic potentiometers furnished standard.
- **Electronics:**
  - ESS-420: 4-20 mA 2 wire transmitter.
  - ESS0.10.10: 0-10 and ±10V amplifiers.
  - OGR8G-M1: 8 Bit gray code Encoder.
- **Enclosures:** Variety of standard and custom steel, cast aluminum and fiberglass enclosures available; NEMA 1, 3R, 4x, 12 and 13.
TECHNICAL DATA

Mechanical:
Operating Temperature: -25° to +70°C
Detented Positions: Up to 7-0-7 Steps
Mechanical life: Maintained action: 20 million plus cycles.
Gasketing: Non-ferrous materials and NEMA 4 gasketing available for marine applications.

Electrical:
Contacts: 10 double pole snap in blocks and up to 20 circuits furnished standard. (consult factory if additional circuits are required)
Terminals: M3.5 x 0.5 machine screw with saddle clamp.
Wire size: No. 12 AWG maximum
Rating AC:
a) AC continuous 16 amps @ 240 volts
b) AC resistive 8 amps @ 240 volts
c) AC inductive 6 amps @ 240 volts
d) 1 H.P. 120 VAC 1phase
e) 2 H.P. 240 VAC 1phase