


# Universal Voltage Input Buffer

## ASY-INPUT-BUFR

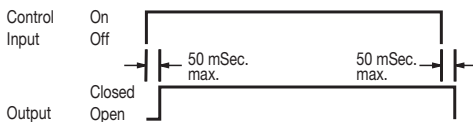
### FEATURES

- Universal control voltage range: 12 to 240 VAC/DC
- Controls all NCC timers requiring start switch input
- No need for isolated start switch contacts
- Easy interface to programmable logic controllers
- Completely solid state, no moving parts to wear out
- Circuitry completely encapsulated
- Low cost
- Compact size
- Superior transient protection
- Flame-retardant and solvent-resistant polyester thermoplastic housing
-  File #E164906

The universal input buffer will take any voltage from 10.6 to 265 VAC/DC and actuate any NCC timer requiring a start switch to initiate a timing cycle.

**Operating Logic:** Upon application of input voltage, the output becomes an effective contact closure (within 50 ms). Upon removal of input voltage, the output becomes an effective open circuit (within 50 ms).

### LOGIC FUNCTION DIAGRAM



### SPECIFICATIONS

#### INPUT

**AC:** 10.6 to 265 VAC 50/60 Hz, 5 mA max.

**DC:** 10.6 to 265 VDC 5 mA max.

**Input-Output Delay:** 50 ms max.

#### OUTPUT

**Effective contact closure for NCC timers:**

Closure: VAC = 9 to 265, 50/60 Hz (6 mA max.)

Closure: VDC = 9 to 265, (6 mA max.)

**Voltage drop across output:** 2.2 VAC/VDC max. at I=6 ma

**Output leakage:** At  $V_{in} = 0$  VDC and  $V_{out} = 265$  VDC, leakage is 25  $\mu$ A DC max.

#### PROTECTION

**Transient Voltage:** 30 joule metal oxide varistor

**Dielectric breakdown:** 3000 Vrms terminal to mounting; 1500 Vrms input to output

**Insulation resistance:** 100 megohms min. between terminals and case

#### MECHANICAL

**Termination:** .25" x .032" male fast-on terminals

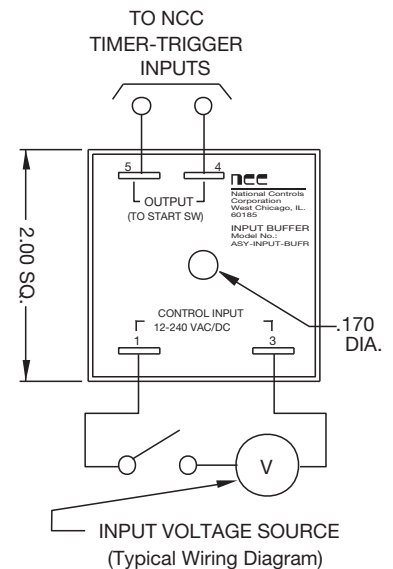
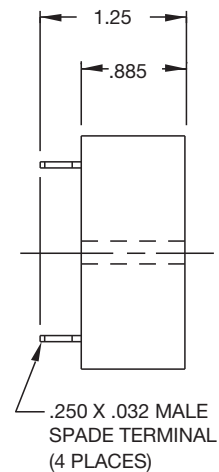
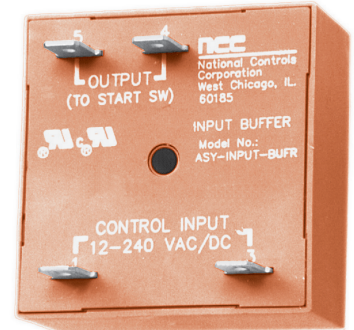
**Mounting:** Surface mount with one #8 screw

#### ENVIRONMENTAL

**Storage temperature:** -40°C to 85°C

**Operating temperature:** -40°C to 65°C

**Humidity:** 95% relative max.



### ORDERING INFORMATION

INPUT VOLTAGE RANGE	PART NUMBER
12 to 240 VAC/DC	ASY-INPUT-BUFR

Consult factory for any special requirements not listed in catalog (minimum order requirement may apply).