

# GEDORE

TOOLS FOR LIFE

formerly TORQUELEADER

## SDU-SIGNAL DELAY UNIT-ORDER C12780

**DATA SHEET:** 011  
**DATE:** 01/16

**Issue No:** 5  
**No of Pages:** 1 of 2



### PRODUCT OVERVIEW:

TSN, TBNE, TSP switch tools contain an internal micro-switch rated at 100mA at 30Vd.c Max, 100µA 50mV d.c. Min. When the tool is operated the switch is designed to close, or make, completing an electrical circuit.

The length of time that the circuit is operable is dependant on the time a TBNE wrench is held in the "broken" position or, in the case of a TSN wrench, the circuit life is very short, typically 100 micro-seconds, due to the slipping action of the tool.

### ELECTRICAL DETAILS:

Housed in a wall mountable box the SDU is equipped with three indicator LEDs and requires either 4xAA batteries (not supplied).

### EXTERNAL POWER SUPPLY REQUIREMENTS:

Voltage: 6v d.c regulated  
Connector: 2.1mm Jack  
Power Jack: Centre Pin Positive, Outside Negative

Internally there is a potentiometer for circuit duration time adjustment and externally a pair of terminals allowing connection to the external device.

## **THE LED'S SIGNIFY AS FOLLOWS:**

- Red** - This will illuminate when the switch in the Torque Tool is closed.
- Green** - This will illuminate whilst the SDU is providing a circuit for the external equipment.
- Yellow** - This is a low battery warning LED. It will start to flash during and immediately after operation of the SDU if the battery is low.

A Yellow battery test button is also provided. If the battery is good the **Yellow** LED will illuminate when the button is pressed and will extinguish when the button is released. If the **Yellow** LED continues to flash for 5-10 seconds after button release the battery is low.

The SDU external contacts are rated at 5 amps for 110V a.c or 24V d.c

## **SDU Operation:**

1. Remove the back of the SDU to gain access to the variable time potentiometer by removing battery pack and gently easing off the plastic back. Turning the potentiometer clockwise will increase the circuit life to a maximum of approximately 1.5 seconds.
2. Following initial adjustment of the time delay, reassemble the unit.
3. Either insert 4xAA batteries taking care to ensure correct polarity (when the battery compartment door is shut, the **Yellow** LED will illuminate briefly to indicate good contact), or connect to external power supply as defined above. (Check Jack plug polarity). The **Yellow** LED will illuminate briefly when power is first switched on.
4. Connect external equipment to "signal Out" terminals (Yellow).(Note contact ratings).
5. Connect the TSN Sw, TBNE Sw or TSP Sw using the Lemo plug provided.
6. When the torque tool is operated, the **Red** LED will illuminate. Simultaneously the **Green** LED will also illuminate and remain lit for the time duration set.

If the torque tool is re-operated whilst the **Green** LED is lit, the second signal from the tool will be ignored.

If a TBNE Sw wrench is held in the "broken" position, the **Red** LED will remain illuminated, but the external circuit will be broken and the **Green** LED will extinguish at the end of the pre-set time delay.

7. The Potentiometer timing can be adjusted to satisfy external equipment.