SEALED SWITCH MODULE

SELF-CONTAINED, LONG-LIFE, SEALED SWITCH MODULE WITH UP TO 5 POSITIONS

The TC is a self contained, sealed switch module with up to 5 positions. It can be utilized in numerous applications that require a compact switch module and long life.

At slightly over an inch in diameter, it can be used in a grip, front panel, or hand held device, just to name a few applications. It is available in either a top mount or rear mount.

The advantage of the TC switch module is that it incorporates keypad functionality within a very small footprint. Standard or custom legends are available and can be LED backlit.

Standard termination options include FPC, flying leads, ribbon cable (with or without AMP connector) and FFC (flexible flat cable). Tested to three million cycles, the TC switch module has an operating temperature range of -40°C to 85°C and it is sealed to IP68S.

The TC can be used in panel or grip applications and is especially useful in cursor control or data entry applications. Applications include construction, agriculture, industrial, material handling and medical.
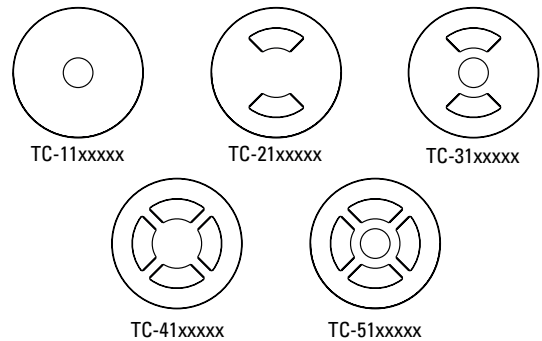
TC-4

TC-3

Features:

- **Watertight to IP68S**
- **Great for grips and panels**
- **3 million cycle electrical life**
- **LED backlight option**

TC Standard Characteristics/Ratings:

ELECTRICAL RATINGS:	1-28 VDC @ Sea Level
Load:	10-100mA Resistive
Electrical Life:	3,000,000 cycles
LED Voltage Rating:	2.0 VDC
Mechanical Life:	3,000,000 cycles
Seal:	IP68S
Operating Temp Range:	-40°C to +85°C
Operating Force:	1.0 +/- .5 lbs.
Pushout Force:	5 lbs. min.
MATERIALS:	
Housing:	PBT
Keypad:	Silicone Rubber
Terminal Hardware:	None provided
Mounting Hardware:	VHB tape

TC-5

TC-5 with standard legend used in a Contour Grip

TC Switch Module Keypad Configurations

TC-11xxxxx   TC-21xxxxx   TC-31xxxxx

TC-41xxxxx   TC-51xxxxx

TC PART NUMBER CODE

TC – X   X   X   X   X   X   X

Position
1. 1 Position
2. 2 Position
3. 3 Position
4. 4 Position
5. 5 Position

Mounting
1. Top Mount
2. Rear Mount (Behind Panel)

Termination
1. FPC, UL 20798
2. Flying Leads, UL 1569, 24 AWG
3. FFC, UL 20624
4. Ribbon Cable, UL 2651, & AMP 215083-8 Connector
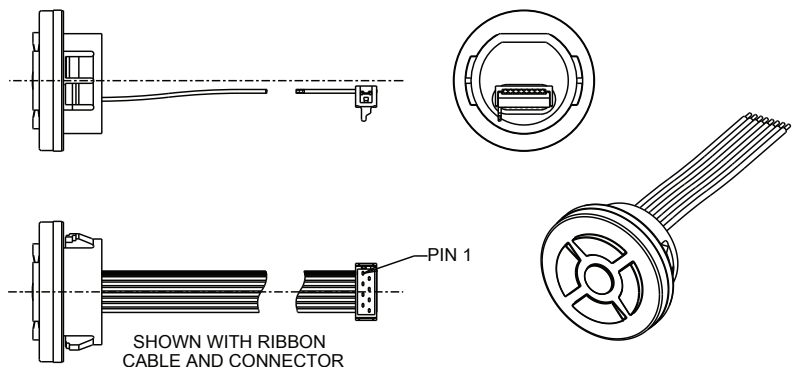5. Ribbon Cable, UL 2651, Blunt Cut
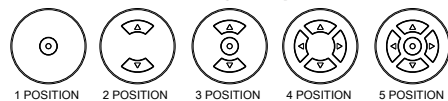
Backlight
N. None
9. White

Color
2. Black

Legend*
None
A. Arrows

Not Used

Arrow Legend Styles

1 POSITION   2 POSITION   3 POSITION   4 POSITION   5 POSITION

* Color = White

Specifications Subject To Change Without Notice

SEALED SWITCH MODULE
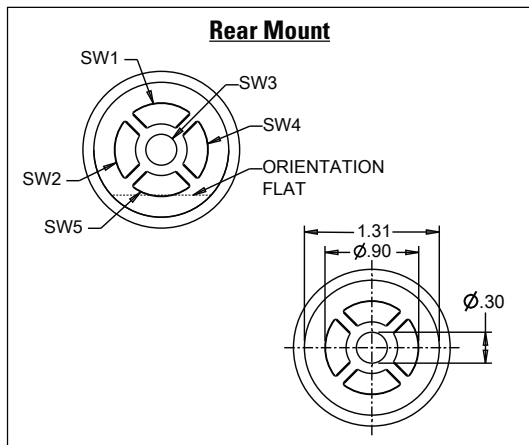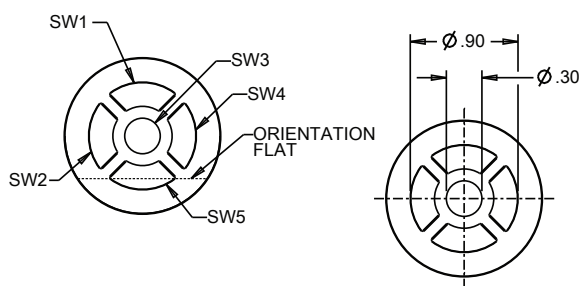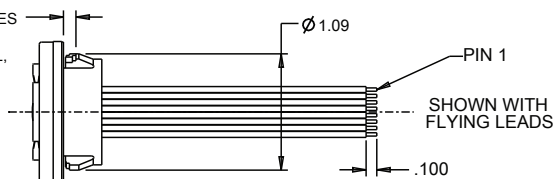
SWITCH MODULES

SELF-CONTAINED, LONG-LIFE, SEALED SWITCH MODULE WITH UP TO 5 POSITIONS

TC-51xxxxx
Top Mount, 5 Position Module

SW1
SW3
SW4
ORIENTATION FLAT
SW2
SW5

Ø .90
Ø .30

SHOWN WITH RIBBON CABLE AND CONNECTOR

PIN 1

SEE DETAIL -A-

SHOWN WITH FPC

.158
PIN 1

.44

DETAIL -A-   7X .049

Rear Mount

SW1
SW3
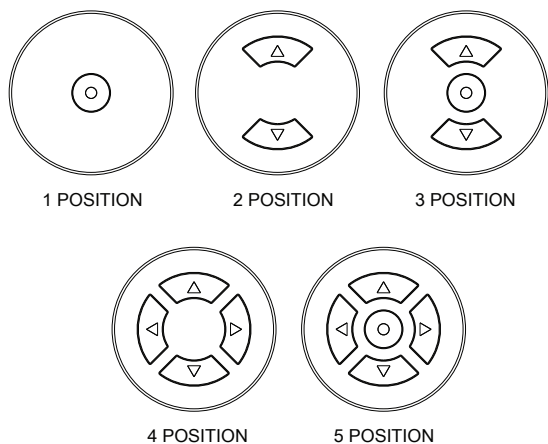SW4
ORIENTATION FLAT
SW2
SW5

1.31
Ø .90
Ø .30

6.00 ±.13

.300 MAX
.380 MAX

Ø 1.32
Ø .990
.44
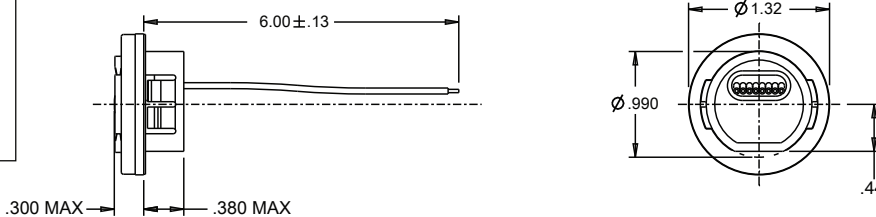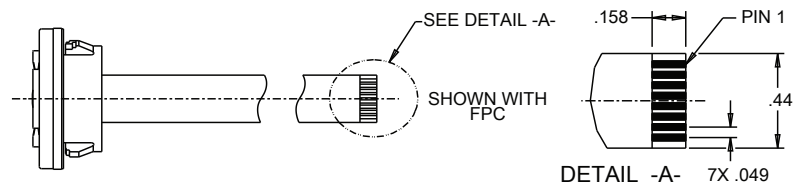
PANEL THICKNESS: ACCOMODATES PANEL THICKNESSES FROM .025 TO .100 WITH VHB TAPE SEAL, AND FROM .025 TO .125 WITHOUT VHB SEAL TAPE.

Ø 1.09
PIN 1
SHOWN WITH FLYING LEADS
.100

Standard Legend Configurations

1 POSITION

2 POSITION

3 POSITION

4 POSITION

5 POSITION

Schematic
with optional LED circuit shown

LED CIRCUIT

BLACK   8
4.7Ω   4.7Ω   4.7Ω   4.7Ω
WHITE   7

VIOLET   6
SW 5
BLUE   5
SW 4
GREEN   4
SW 3
YELLOW   3
SW 2
ORANGE   2
SW 1
RED   1