

PT65 SERIES PULSE GENERATORS

FEATURES

- 3 + 3 terminal layout.
- 10 positions.
- Completely sealed for process compatibility.
- Precision designed detent action.
- Compact size.
- High reliability & long life.
- Clockwise or counterclockwise settable.
- Solder coated terminals.



The pulse generator is a mechanical rotary switch connecting input C to outputs 1 and 2 in a time delayed sequence. Typical applications include dimmer and volume control, where adding or subtracting instructions are read into digital electronics.

Code 31: The connections between input C and terminals 1 and 2 occur only for the duration of the pulses, after which they are disconnected (set back to 0).

Contact bounce pulse duration (at 15 rpm):

C+Pin 1 > 50 ms
C+Pin 1+Pin 2 > 100 ms
C+Pin 2 > 50 ms

MATERIALS

Base	UL94V-O, high temperature thermoplastic
Cover	UL94V-O, high temperature thermoplastic
Actuator	POM
Contacts	Gold over nickel plated bronze
Terminals	Gold over nickel plated bronze
Terminal sealing	Molded-in
Actuator seal	'O'-ring

GENERAL SPECIFICATIONS

ELECTRICALS

Operating voltage	12 VDC max.
Contact rating, static	400 mA max.
Contact rating, dynamic	150 mA max.
Test voltage	250 V for 1 minute
Initial contact resistance	< 80 milliohms
Contact bounce	< 10 milliseconds
Pulse durations	See graphs below

MECHANICALS, THERMALS

Torque	0.98 inch-oz. min. (0.7 Ncm min.)
Expected life	10,000 switching operations
Contact force	15 grams min.
Positions per rotation	10
Rotation speed	50 rpm (Max.)
Vibration resistance	10g
Operating temperature range	-20°C to 70°C

SOLDERING RECOMMENDATIONS

Hand soldering	340°C max. for 2 seconds max. (40 watt iron max.)
Wave soldering	260°C max. for 10 seconds max.
Solvent washing	Freons or alcohol. (Do not use chlorinated solvents)
Aqueous cleaning	Deionized water preferred

Refer to Actuator drawings shown

Complete Model No. by Terminal Style

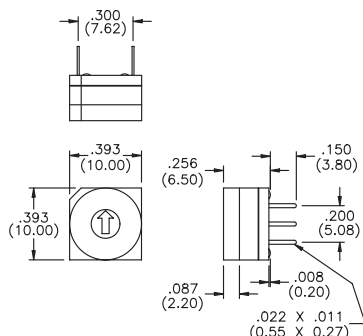
Code	Actuator	Straight	Right Angle	
			Pitch	
			.100" (2,54)	.200" (5,08)
Code 31	Arrow shpd. slot	PT65131	PT65131L254	PT65131L508
Code 31	Spindle	PT65331	PT65331L254	PT65331L508
Code 31	Cross-shpd. slot	PT65731	PT65731L254	PT65731L508

PT65 SERIES PULSE GENERATORS

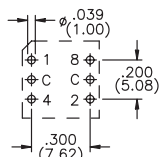
MECHANICAL OUTLINES

Terminal option suffix*:

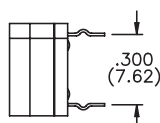
NONE
Straight
terminals



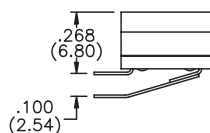
Mtg. hole pattern:



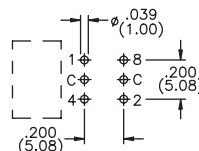
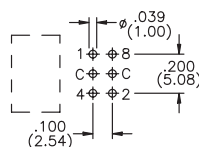
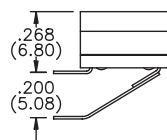
V
Crimped
terminals



L254
Right angle
terminals

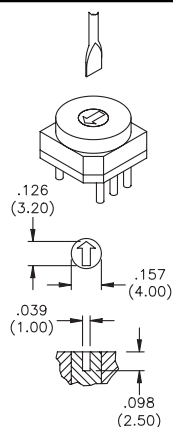


L508
Right angle
terminals

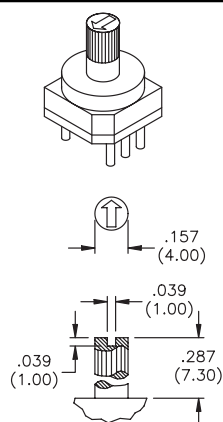


* 'None' indicates no option suffix is required.

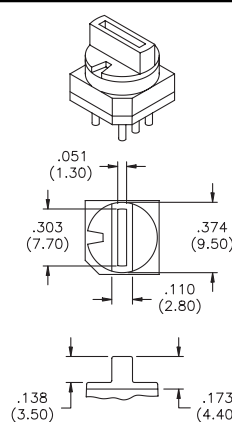
ACTUATORS



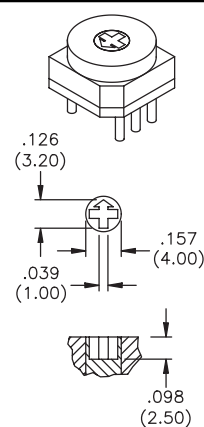
Arrow shaped slot



Spindle



Segment wheel



Cross shaped slot

PT65 SERIES STANDARD OPTIONS :

Actuators

- 1 Arrow shaped slot
- 3 Spindle
- 5 Segment wheel
- 7 Cross shaped slot

Codes

- ### 31 10 position pulse generator

Terminals

- | | |
|------|------------------------|
| None | Straight |
| V | Crimped |
| L254 | Rt. angle 2.54 (.100") |
| L508 | Rt. angle 5.08 (.200") |

ORDER GUIDE:

Make selections from the above table in sequence to specify a complete model number.

Note that 'None' indicates that no option suffix is required.

Example;

PT65131V

Series  Terminals

Actuator  Code