PIHFR



MAIN SPECIFICATIONS

All the PT's with detents series maintain the original specification & features of the chosen potentiometer.

APPLICATION EXAMPLE



Piher's PT15V12 with up to 38 detents in combination with a tact switch is an ideal replacement for encoders.

HOW TO ORDER

PT's with Detents

FEATURES

This innovative PT's with detents family has been specifically developed to allow the integration of otherwise large and expensive external mechanisms into the body of the majority of the 10 & 15 mm. PS/PT/PTC potentiometer series thus allowing a high range of configurations: special tapers, tolerances, linearity, cut track, etc.

cia

Design

This detent design not only adds a "click" sensation of position, but also offers enormous savings in both cost and space for any given application.

Strong and weak detents can be mixed as per cutomer's request.

TYPICAL APPLICATIONS

As previously highlighted, this family is indispensable wherever both cost and space saving reductions are important, or where a series of fixed positions along the potentiometer travel are required, eg:

- Replacement for:

- Existing customer detent mechanisms.
 - Multi-pole switches.
- 3 or 4-bit absolute encoders (connecting PT
- to microprocessor analogue input).
- Analogue signal presets.
- Temperature control settings.
- Relay Timers.

PT's with detents also lend themselves perfectly to Industrial and Domestic Power Tool applications where the detents prevent accidental movement of the potentiometer under vibration.

If high torque detents are required please see our Detent Control Mechanism (DCM) series datasheets.

	STANDARD			C	OPTIONAL EXTRAS
	РТ	1 5			P 1 3
	Se	ries			Detents
	PT PS PT PT PT PS	-10 -10 C-10 -15 C-15 -15			PAI PAM PAF P1I P1F P02 P50
NOTES:					
(1) • Detents not available with: - PT / PTC-10 V 05 - PT / PTC-15 V 02 & V21 - PT / PTC-15 V 12 & V22 PT / PTC 15 V 12 & V22				(4)	Detent torque can vary fro potentiometer torque
- PT-15 V 24 These cases are studied individually. (2) • Standard mechanical life is 500 cycles.				(5)	 Please consult your neare non-overlapping values at LOG/ALOG tapers are req
 (3) • Long life versions are available under request and have the following characteristics at T^a: PT´s with 1 to 3 detents: up to 10k cycles PT´s with 4 and more detents: up to 5k cycles 				(6)	• Please note that if you wa a different value at each d Residual Resistance is ≤ 7

NOTE: The information contained here should be used for reference purposes only.

- om 1.2 to 2.5 times the standard
- est Piher supplier if unique each detent position or uired.
- nt a high number of detents and etent position (special taper), the 7.5% Rn



DETENT CONFIGURATIONS



2.5

+0.1

5^{+0.1}

PT/PTC-10 P10 ...



PT/PTC-10 with 10 detents and silver zones

Detents can be matched with constant value zones when required.









6^{±0.2}

5

0

5^{+0.1}

A = Initial S = Wiper E = Final



NOTE = Please note relative terminal positions when ordering non linear tapers. Special configurations to be studied upon request.

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