PIHER



MECHANICAL SPECIFICATIONS

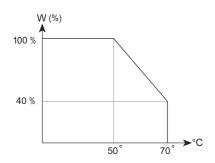
- Mechanical rotation angle: $265^{\circ} \pm 5^{\circ}$ 240° ± 5° available under drawing

– Electrical rotation angle: 240° ± 20°

Detent torque: customiseable, up to 8.8 Ncm

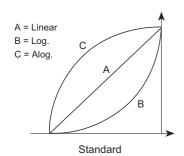
- Life (cycles): up to 100K

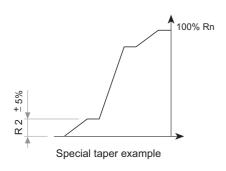
POWER RATING CURVE



TAPERS

NOTE: Please note terminals disposition when ordering non linear curves.





DCM-PT15

Detented control

FEATURES

- Designed for PT15V or PS15.
- Up to 16 high torque detents.
- High & low torque detents can be freely mixed.
- Detents configurable to specific positions in complex tapers.
- IP54 protection according to IEC 60529
- Also upon request:
 - Wiper positioned at 50%, fully clockwise and initial.
 - Self extinguishable plastic UL 94V-0.
 - Cut track option (initial / final).
 - · Special tapers.
 - · Crimped terminals.

ELECTRICAL SPECIFICATIONS

Range of values*

 $100\Omega \le Rn \le 5 M$ (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)

- Tolerance*: $100\Omega \le Rn \le 1M \Omega$ $\pm 20\%$ $1M\Omega < Rn \le 5M$ $\pm 30\%$

- Max. Voltage: 250 VDC (lin) 125 VDC (no lin)

Nominal Power 50°C (122°F) (see power rating curve)
 0.25 W (lin) 0.12 W (no lin)

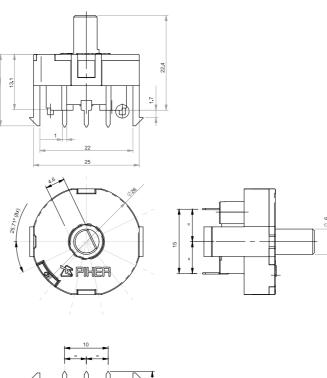
- Taper* (Log. & Alog. only Rn≥ 1K) Lin; Log; Alog.

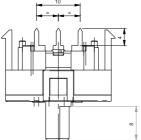
- Residual resistance: ≤0.5% Rn (5Ω min.)

- Equivalent Noise Resistance: \leq 3% Rn (3 Ω min.)

– Operating temperature**: –25°C + 70°C (–13°F + 158°F)

DIMENSIONS





DCM-PT15: detented control

- High & low torque detents can be freely mixed
- Cut track option (initial / final)
- Detents configurable to specific positions in complex tapers.
- Designed for PT15V or PS15 (SMD)
- Wiper positioned at 50% or fully clockwise
- Resistive track dust proof enclosed
- Up to 16 high torque detents
- Also upon request:

Self extinguishable plastic UL 94V-0

Wiper positioned at 50% or fully clockwise

Special Tapers

Crimped terminals

Standard specifications

Detents number up to 16

Tapers: Linear; Log; Alog

Electrical rotation angle: $240^{\circ}\pm20^{\circ}$ Mechanical Rotation angle: $265^{\circ}\pm5^{\circ}$

Mechanical life: up to 100K cycles

Operating temperature: -25°C to +70°C

Detent Torque: up to 8.8 Ncm

Description

The DCM PT15 was designed to provide a cost effective solution for Appliance Controls. The combination of a PT15/PTC15/PS15/PT15 360° control potentiometer with a Detent Control Mechanism (DCM) affords the appliance designer the possibility to solder the potentiometer onto the Control PCB assembly and then, in a second operation, assemble the DCM over it. This removes the need to build Detents into the User front panel of the appliance, simplifying, and significantly reducing the total cost of the solution.

The detent torque can be modified according to customer's requirements (depending on the input dial's diameter, etc) as can the number and position of the detents.

About Piher Sensors & Controls

Piher is a specialist manufacturer of position sensor and control solutions for the worldwide Land Vehicle and Appliance markets. Our products are typically employed for HVAC (Climate Control), AFL (Adaptive Front Lighting), Infotainment and Seat Memory & Heating in the Automotive industry and for Human Interface applications in the Consumer Electronics, Major Appliances, Power Tools and Industrial/Instrumentation markets.



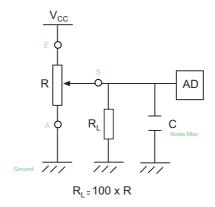
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RECOMMENDED CONNECTIONS

Piher potentiometer's recommended connection circuit for a position sensor or control application.

(voltage divider circuit electronic design).



Disclaimer

The product information in this catalogue is for reference purposes. Please consult for the most up to date and accurate design information.

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