


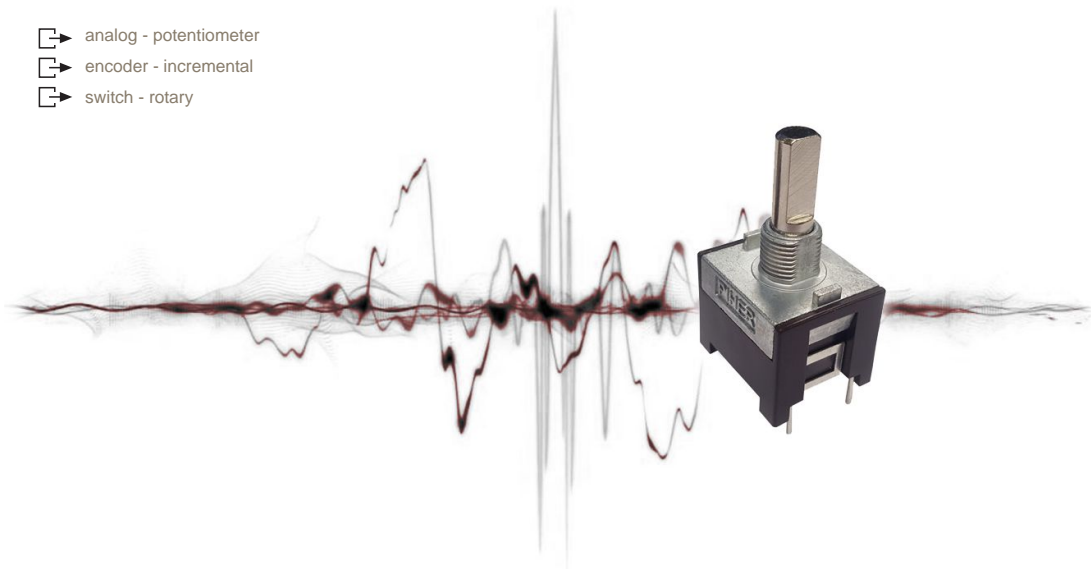


Appliance control

Appliance potentiometer / detented control DCM-PTT

-  analog - potentiometer
-  encoder - incremental
-  switch - rotary



Standard specifications

Mechanical angle	360°
Electrical angle	280° ± 10°
Rotational torque	≤ 50 mN.m
Resistance values	10K
Linearity	± 5% (standard)
Detent torque	900 to 1500 gf.cm
Tolerance	±30%, ±20%
Max. voltage	38 VDC
Nominal power	0.15 W @ 50°C
Taper	Linear
Life	25.000 cycles
Standard detents number	2, 4
Operating temperature range	-40°C to +120°C

Check availability for other specifications.

Description

The DCM-PTT potentiometer offers sturdiness, performance and adaptability where frequent human-machine-interface adjustment is required.

Its robust design allows for employment of different mechanisms, such as a selecting a program/function in your dishwasher or setting the temperature of a cooktop.

Different output choices are available (incremental encoder-pulse, rotary switch, absolute-analog potentiometer) and safety measures such as push-to-turn.

Detent number, connectors, mounting flanges, tact switch function and other features can be studied upon request.

Typical applications include consumer electronics, ovens and other kitchen appliances, white and brown goods, automotive HVACR and personal care control panels.

This datasheet shows you the basics of this potentiometer that is quite versatile.

Do not hesitate to contact Piher specialists for further advice.

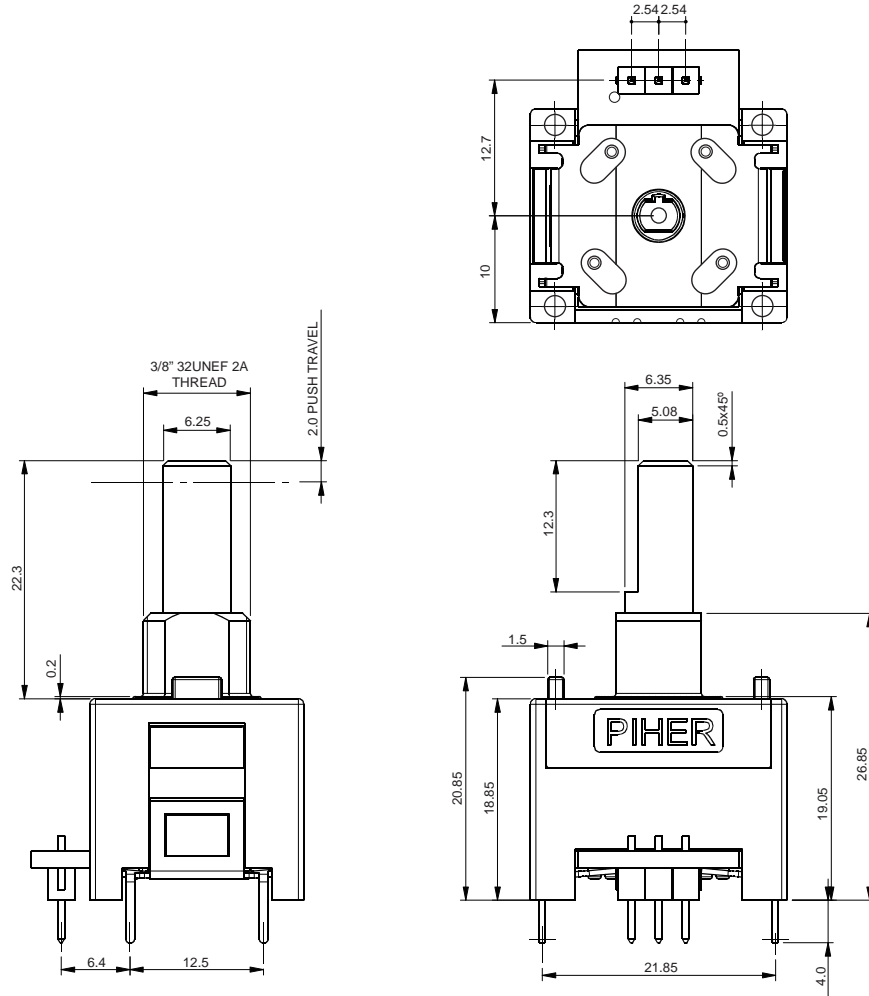
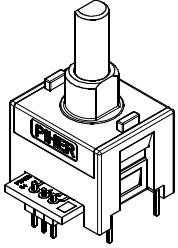
Main features

- Fully customisable features:
 - detents (or no detents)
 - end stops
 - plastic / metal shafts
 - "plug-and-play" connectors
 - "push to turn" function
 - availability as switch, encoder or potentiometer.
- Endless Rotation.
- Wide Electrical Angle.
- Extended Mechanical Life.
- Laser trimming upon request.

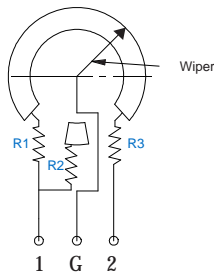
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Dimensions



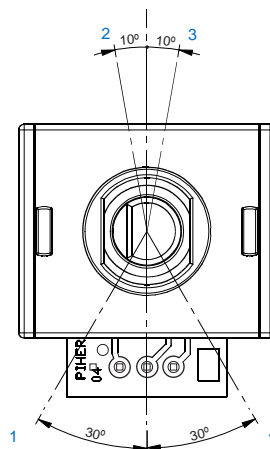
Internal scheme



R total = 10 Kohm ± % tolerance

R1 = 50-150 Ohm

Four detents configuration example



The detents are stops during the rotational travel that not only add a "click" sensation of position, but also offer enormous saving in both cost and space. PIHER's can feature special stepped outputs or 'constant voltage zones' for these detent positions and custom torques under request.

- Detent 1 - 30°
- Detent 2 - 170°
- Detent 3 - 190°
- Detent 4 - 330°

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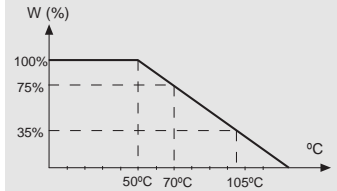
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Power rating curve



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