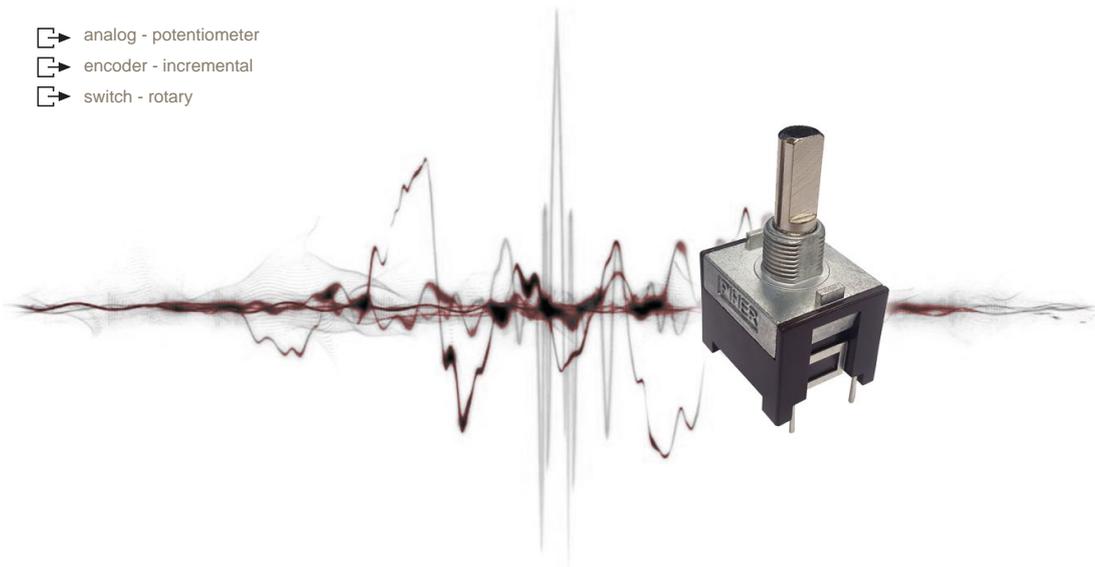


## Appliance control

# 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.

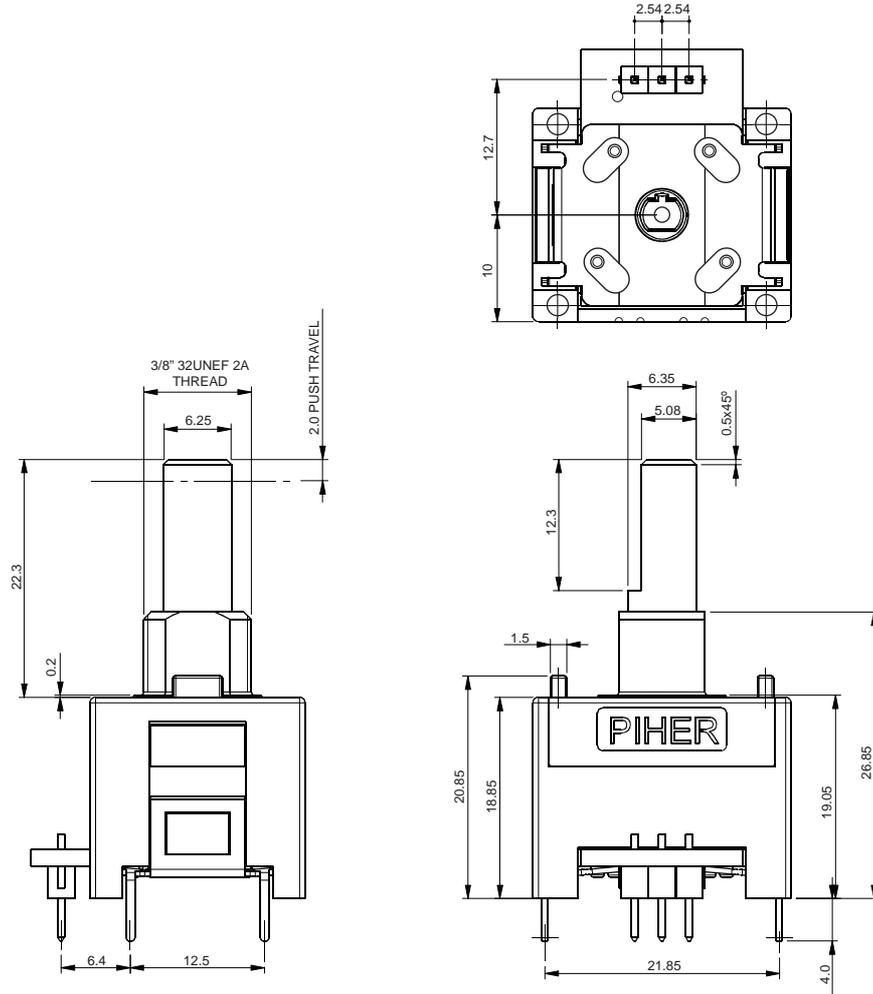
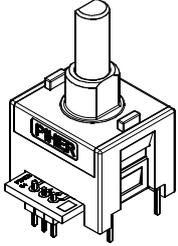
## Main features

- 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.

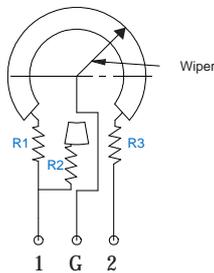
## Appliance control

# Appliance potentiometer / detented control DCM-PTT

## Dimensions



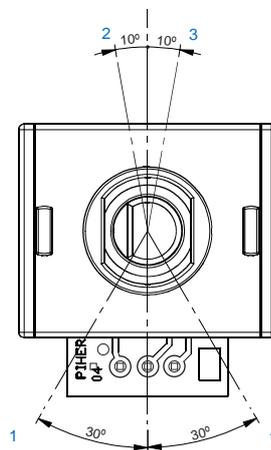
## Internal scheme



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°

## Appliance control

# Appliance potentiometer / detented control DCM-PTT

## Disclaimer

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

Piher Sensors & Controls S.A., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Piher"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product described herein.

Piher disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Piher's terms and conditions of sale, including but not limited to the warranty expressed therein, which apply to these products.

No licence, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Piher.

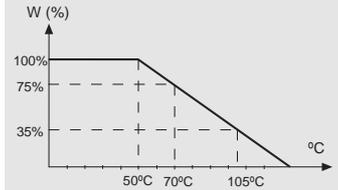
The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Piher products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Piher for any damages arising or resulting from such use or sale. Please contact authorised Piher personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Information contained in and/or attached to this catalogue may be subject to export control regulations of the European Community, USA, or other countries. Each recipient of this document is responsible to ensure that usage and/or transfer of any information contained in this document complies with all relevant export control regulations. If you are in any doubt about the export control restrictions that apply to this information, please contact the sender immediately. For any Piher Exports, Note: All products / technologies are EAR99 Classified commodities. Exports from the United States are in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited.

Piher is an Amphenol™ company.

## Power rating curve



## Contact

Piher Sensing Systems  
Poligono Industrial Municipal  
Vial T2 N°22  
31500 Tudela - Spain  
Tel: +34-948-820450

sales@piher.net

www.piher.net



**RoHS**  
compliant



All Piher products can be adapted to meet customer's requirements.

Due to continuous process improvement, specifications are subject to change without notice.

Please always use the latest updated datasheets and 3D models published at our website [www.piher.net](http://www.piher.net).

v300819

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Potentiometers](#) category:*

*Click to view products by [Amphenol](#) manufacturer:*

Other Similar products are found below :

[58C2-2](#) [590SX1N32F103SS](#) [591SXJ48S252SC](#) [591SXP56S252SC](#) [591SXP56S503SC](#) [D31409](#) [70B1G048K502X-A](#) [70B1M032S502W](#)  
[70B1N056S202W](#) [70B8N056F502W](#) [70J8N048S104U](#) [70L1N040P103W](#) [70L1N048P103X](#) [70L1N048S103W](#) [GA2L040S102UC](#)  
[GA2L040S103UC](#) [GS1G044P103UA](#) [GS1N048P103UA](#) [GS1T032S103UA](#) [A43-1500](#) [A43-20K](#) [A47-200K](#) [A4720K](#) [RA20LASD251A](#)  
[132-2-0-202](#) [RK14K1220-F25-C0-A103](#) [RK14K1220F25C0C104](#) [RK14K1220-F25-C1-B103](#) [14910FAGJSX10102KA](#)  
[14910FBGLFY00103KA](#) [14910AABHSX10103KA](#) [14910FAGJSX10104KA](#) [152-01031](#) [C0342008 5K](#) [P270-109A](#) [J97589](#) [23M728](#)  
[RV170F-10-15R1-B500K-0021](#) [RV8NAYS104A](#) [917523A](#) [A43-40](#) [A43-750](#) [A43S-5](#) [A47-15K](#) [A4750K](#) [SPPG048S103U](#)  
[SPPG056P103U](#) [SWE-10](#) [GA2G040F103BA](#) [GS1G052F103UA-A](#)