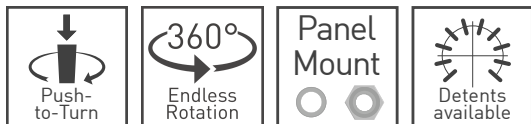
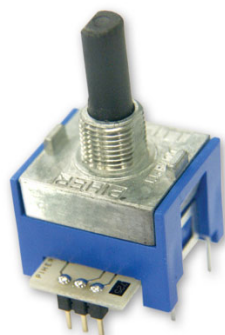


DCM-PTT

Push-to-Turn Panel Control

The DCM-PTT Push-to-Turn control offers sturdiness, performance and adaptability where frequent human-machine-interface adjustment is required. The push-to-turn functionality offers additional safety by preventing accidental switch-on. 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 cook top. Typical applications include consumer electronics, ovens and other kitchen appliances, white and brown goods, automotive HVACR and personal care control panels.

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



KEY FEATURES

- ▶ Different output choices:
 - ▶ absolute analog potentiometer
 - ▶ incremental encoder pulse
 - ▶ rotary switch
- ▶ Push-to-Turn functionality
- ▶ Detents for tactile feedback
- ▶ Excellent performance (5% linearity)
- ▶ Plastic or metal shafts
- ▶ Endless Rotation (360°) or mechanical end-stop
- ▶ Wide electrical angle (up to 340°)
- ▶ Long product life (25,000 cycles)

On request

- ▶ Laser trimming
- ▶ Connectors

MECHANICAL SPECIFICATIONS

| | |
|---------------------------|------------------------|
| Mechanical rotation angle | 360° |
| Electrical rotation angle | 280° ±10° 340° ±10° |
| Detents | 2 4 |
| Torque | |
| Rotational | ≤50 mN.n |
| Detent | 900 to 1,500 gf.cm |
| Life | 25,000 |

Other specifications available on request

ELECTRICAL SPECIFICATIONS

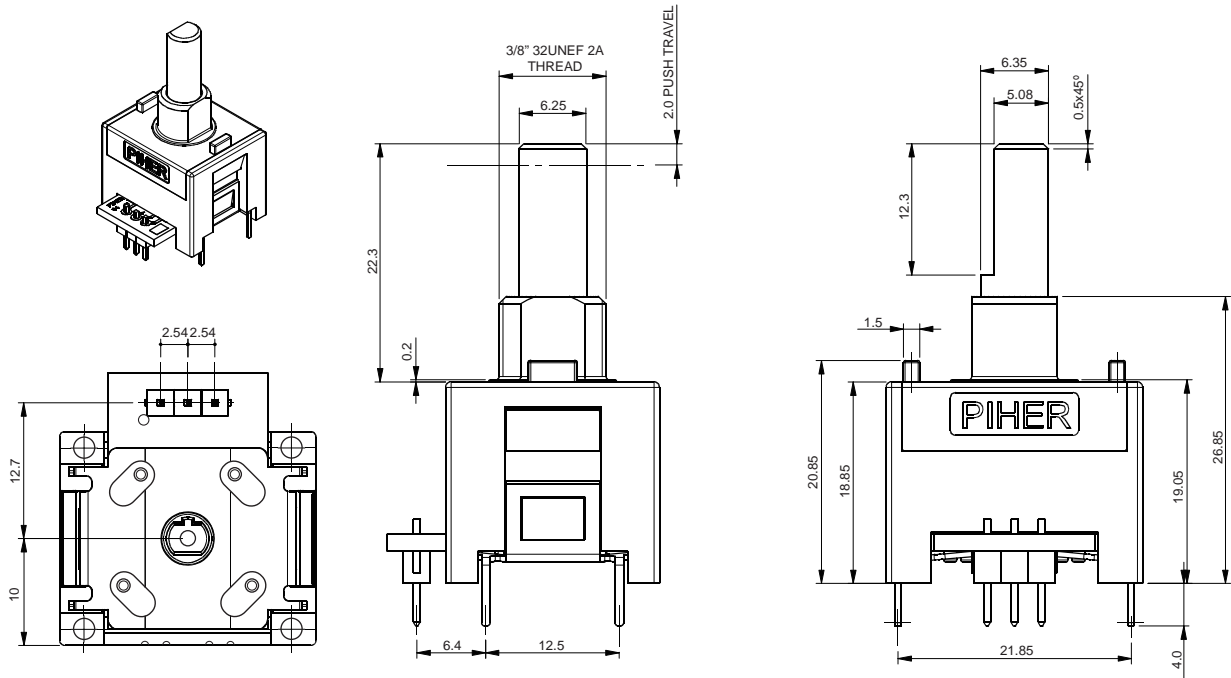
| | |
|-----------------------|------------------------------------|
| Taper | Linear |
| Resistance Value | 10 kΩ |
| Tolerance | ± 30% / ± 20% |
| Max. Voltage | 38 VDC |
| Nominal power | 0.15 W at 50°C (122°F) |
| Linearity | ± 5% |
| Operating temperature | -40°C to +120°C (-13°F to + 158°F) |

Other specifications available on request

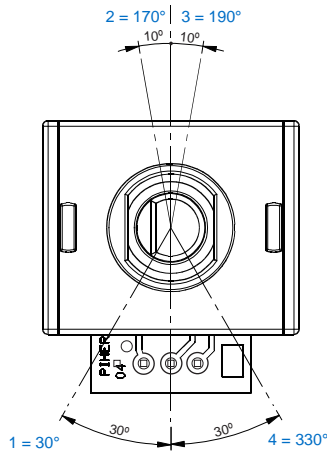
DCM-PTT

Push-to-Turn Panel Control

DIMENSIONS (IN MM)

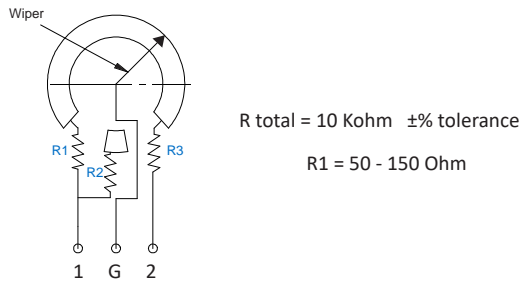


DETENT CONFIGURATION



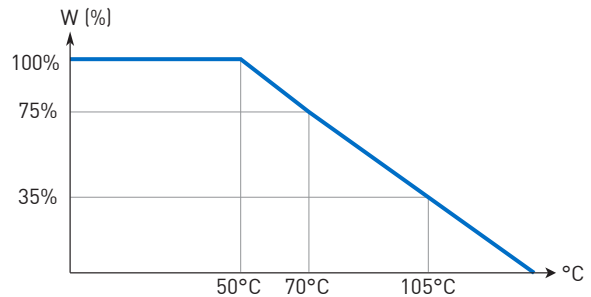
The detents are stops during the rotational travel that not only add a "click" sensation of position, but also offer enormous saving in both cost and space. PIHER can provide special stepped outputs or 'constant voltage zones' for these detent positions and custom torques on request.

INTERNAL SCHEME



Custom output functions available on request.

POWER RATING CURVE



Custom output functions available on request.

DCM-PTT

Push-to-Turn Panel Control

One Stop Shop

Multiple Advantages



Engineering design-in support



Output customization



Cable harness and connector assembly



One-stop solution provider for different sensing technologies

Hall-effect

TMR

Resistive

Inductive

Printed electronics



Global footprint



Manufacturing capabilities for high and low volume programs



Diverse portfolio of standard and customized sensors: Tilt, Position, Speed and Current.

OUR ADVANTAGE

- ▶ Leading-edge innovative position sensing solutions
 - ▷ Contactless (Hall-effect and Inductive Technology)
 - ▷ Contacting (Potentiometers, Printed Electronics)
- ▶ Engineering design-in support
- ▶ All our products can be customized to fit target application and customer requirement
- ▶ Capability to move seamlessly from development to true high-volume production
- ▶ A global footprint with global engineering and commercial support
- ▶ One-stop shop not limited to position sensors (temperature, pressure, gas,...) through group collaboration
- ▶ Flexibility and entrepreneurship of a medium-sized company with the backing of Amphenol Corporation



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