

Z-15

v01

**Navarra de Componentes
Electrónicos, S.A. NACESA**
Factory & Headquarters
Polígono Industrial Municipal
Vial T2, N° 22
31500 Tudela Spain
Tel: +34-948-820450
Fax: +34-948-824050
Email: sales@piher.net

CATALUNYA BRANCH OFFICE
Salvador Espriu, 63 3. 2.
08005 Barcelona Spain
Tel: +34-93-2257497
Fax: +34-93-2217243
Email: mdrecacha@piher.net

TAIWAN BRANCH OFFICE
11F-1, No.200, Sec.3, Pa Teh Road
105 Taipei, Taiwan
Tel: +886-2-25788182
Fax: +886-2-25788070
Email: piherwn@ms15.hinet.net

PIHER INTERNATIONAL LTD
Unit 20 Ash
Kembrey Park
Swindon
Wiltshire SN2 8UN UK
Tel: +44-1793-432235
Fax: +44-1793-432274
Email: uk@piher.net

PIHER INTERNATIONAL GMBH
Orchideenstr. 6
90542 Eckental-Brand
Germany
Tel: +49-91268085
Fax: +49-91268089
Email: info@piher-international.de

PIHER BENELUX INTERNATIONAL BV
Ambachtsstraat, 13b
3861 RH Nijkerk Holland
Tel: +31-33-2451476
Fax: +31-33-2453222
Email: benelux@piher.net

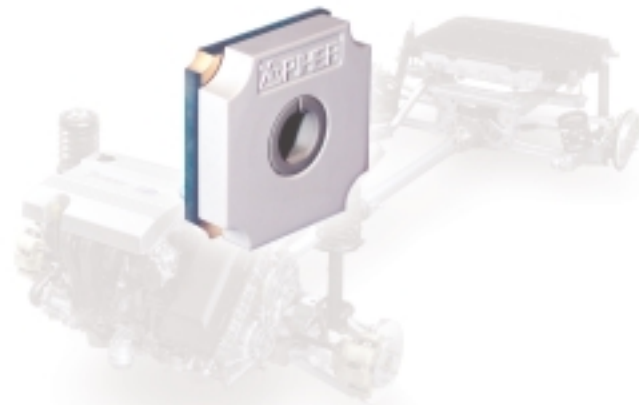
PIHER INTERNATIONAL CORPORATION
1640 Northwind Boulevard
Libertyville
Illinois 60048 USA
Tel: +1-847-9189300
Fax: +1-847-9189433
Email: sales@piherusa.com

PIHER INTERNATIONAL, S.A.
10, rue Mercœur
75011 Paris
France
Tel: 33 (0) 1 53 27 61 61
Fax: 33 (0) 1 53 27 61 62
Email: courier@piher.net

**REGIONAL SALES MANAGER - CHINA &
HK**
Meggitt (Xiamen) Sensors & Controls Co.,
Ltd.
No. 230, South 5 Gaoqi Road,
Xiamen, Fujian Province, 361006, P.R. China
Tel: +86 592 573 3666 ext. 822
Fax: +86 13600922526
Cell: +86 13600922526
Email: charles.qi@piher.net

Exclusive Representative:
**PIHER INTERNATIONAL
ITALIANA SRL**
Via Alzaia Trieste, N° 3
20090 Cesano Boscone
Milan Italy
Tel: +39-024404779
Fax: +39-024405531
Email: piher@piher-italy.com

15mm rotary sensor for demanding applications



Z-15

Targeted for Powertrain and other Critical applications, the Z-15 has been specifically designed to be integrated within the existing final application (throttle body, air-intake valve...) to avoid the duplication of costs associated with the standard "bolt-on" alternatives that prevail in the marketplace.

Moreover, because of the cost effectiveness of the Z-15 solution, TRUE redundancy can be achieved employing two or more ganged Z-15's.

Mechanical Life: 2M cycles
Op. Temp. Range: -40°C to +120°C
Electrical Angle: 90°

Preliminary datasheet



FEATURES

- Long Life (2M cycles)
- Conceived and designed for customisation
- SMD or Through-hole Mount
- Endless Rotation (360°)
- Functional Electrical Angle: 90°
- Working Temperature Range (-40°C to +120°C)
- Low Profile (4.4 mm)
- Linearity ± 3% (standard)
- Embossed Tape or Bulk packaging
- Shaft insertable from both sides
- Polarised "T" rotor (European Home Appliance standard)
- All PT/ PTC 15 shafts compatible

STANDARD SPECIFICATIONS

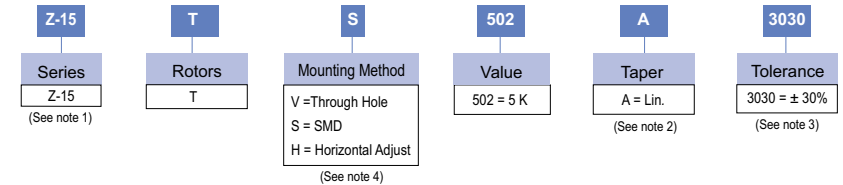
Resistance values*:	5K
Tolerance:	± 30%
Nominal Power:	0.15 W @ 50°C
Linearity (absolute):	± 3%
Taper:	Linear
Mechanical Life:	2M cycles
Temperature Range:	-40°C to +120°C
Mechanical Angle:	360°
Electrical Angle:	110° ± 10°
Rotational Torque:	≤ 20 mN.m
Max. Voltage**:	27 VDC (5K value)

TYPICAL APPLICATIONS

- The Z15 series offers an SMD and Through Hole mount solution for the majority of **Position/Rotary Sensor** and **multi-purpose Control** applications such as:
- Automotive HVAC, Seat, Rear-view mirror actuator feedback sensors and HVAC Controls
 - Temperature Control for Boilers, Wall Heaters, Showers, Radiators, Conventional and Microwave Ovens, Freezers...
 - Timer & Function/Programme Select for Washing Machines, Dishwashers and all White Goods in general.
 - Size and Position detectors

(*) Others upon request
 (**) Max. voltage is dependent on nominal power and resistance value.
 Max. voltage can not exceed 250VDC

HOW TO ORDER



NOTES:

- (1) A wide variety of custom substrates available
- (2) Availability of a wide range of customised tapers and step curves
- (3) Optional precision laser-trimmed voltage divider calibration
- (4) Horizontal adjust versions will be studied case by case

Rotor colour: black. Shafts are not available mounted to the potentiometer and should be ordered separately

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