



ROTECH FOR RELIABILITY!

*Why Accept Anything Less?*

## PAE 2000-RS Series Aluminium Body

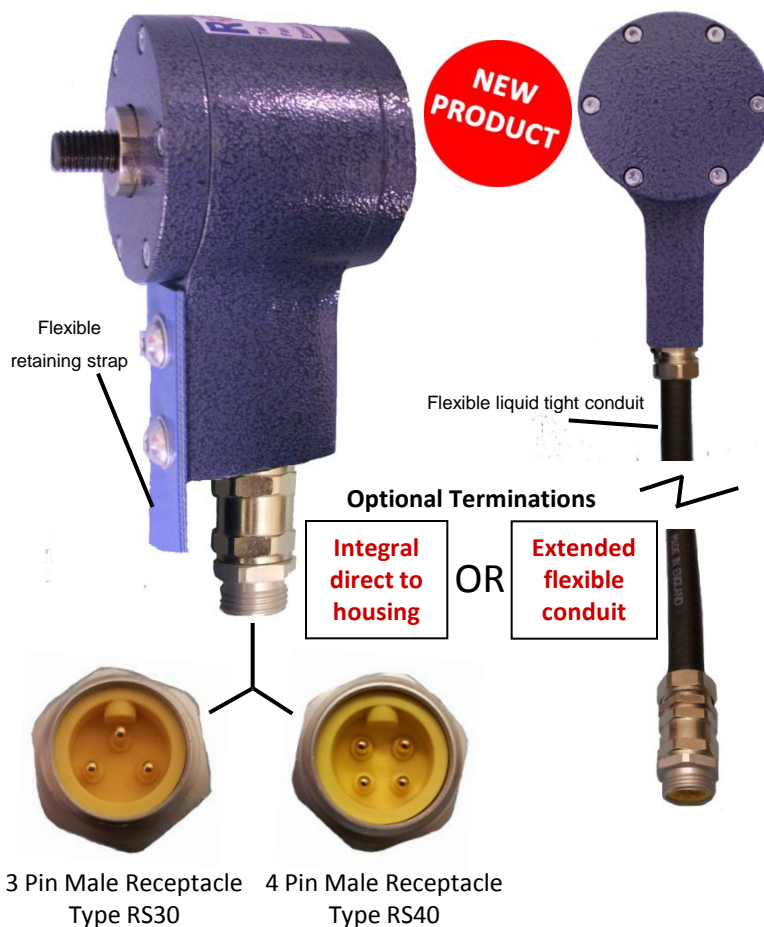
BRAD® CONNECTIVITY

HEAVY DUTY – END OF SHAFT

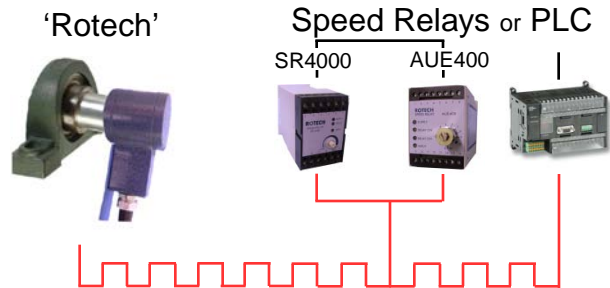
The PAE 2000-RS series of Rotech shaft mounted motion sensors & encoders are manufactured in an extremely tough and durable aluminium casting with an industrial powder coated finish as well as being fitted with the Brad® Quick connectivity range of 3 & 4 pin receptacles for easy on site electrical termination.

Installation is simple and easy, just one 12mm threaded hole in the end of the shaft being monitored or fitted using the unique “Mag-Con” magnetic connector as shown below.

A wide range of number of pulses per revolution are available together with AC and DC electrical outputs. Quick connectivity using the standard Brad® Mini – Change® Connectors as shown below.



### APPLICATION EXAMPLE:



### FOR MONITORING:

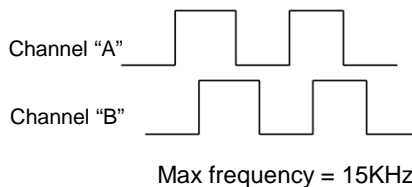
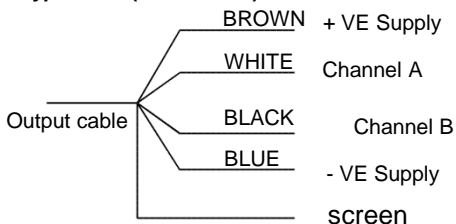
- Speed
- Distance
- Direction
- Belt slip
- Shaft stopped
- Underspeed
- Overspeed
- Safety guards interlocking

### FEATURES:

- Totally self contained (no guards required)
- Maintenance free for maximum reliability
- 1 to 1000 pulses per revolution
- Environment ingress-IP67
- -25 to +70, 100, 125, 150 deg Celsius versions available

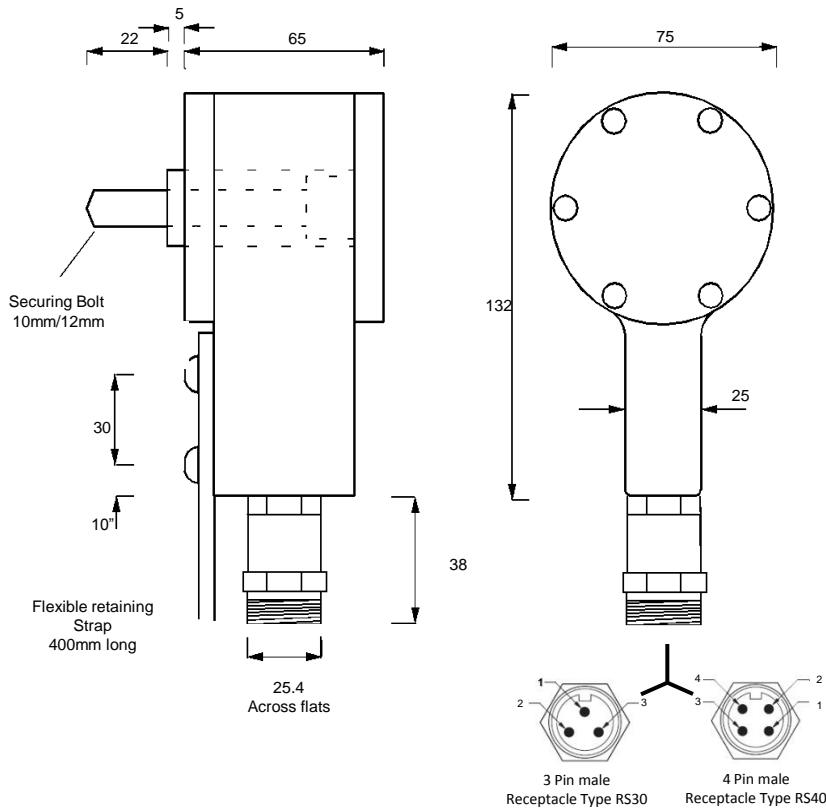


### Type E3 Q (Quadrature) 10-30Vdc



Channel "A" Leads Channel "B" for clockwise rotation viewed from shaft end of encoder

# Dimensions/Installation/Electrical Terminations



## RS30/RS40 Connection options available

Female Chassis/Conduit Plug

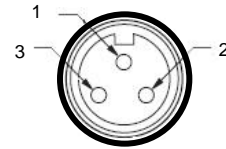


Female Cable Plug

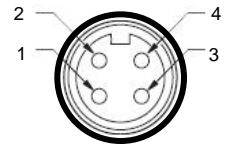


### Cable Plug Views

3 Pin Female Connector Type RS30



4 Pin Female Connector Type RS40



Refer to electrical outputs below for pins designation

### Cable Cores Identification

**RS30**

1. Black
2. Brown
3. Blue

**RS40**

1. Brown
2. Black
3. White
4. Blue

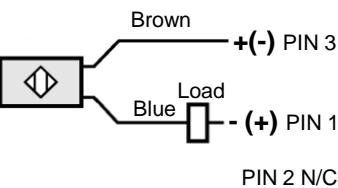
### Available Pulse Rates (PPR)

1,2,4,5,6,8,10,12,16,20,30,32,40,50,60,100,120,180,240,250,300,360,500,1000 (Dependent Upon Output Type)

## Electrical Outputs

**Type Z**  
(2 Wire Non Polarized)  
10-30Vdc

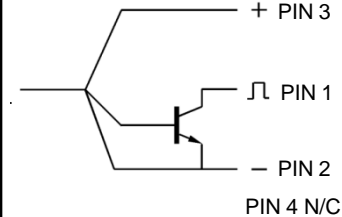
**RS30**



Max frequency = 1500Hz

**Type E (N.P.N)** 10-30Vdc  
Current sink

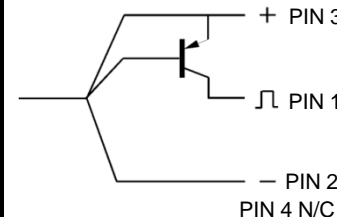
**RS40**



Max frequency = 600Hz

**Type E2 (P.N.P)** 10-30Vdc  
Current source

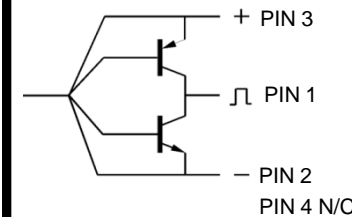
**RS40**



Max frequency = 600Hz

**Type E3**  
(N.P.N + P.N.P - 3 wire)  
10-30Vdc  
Bi-polar - Current sink/source

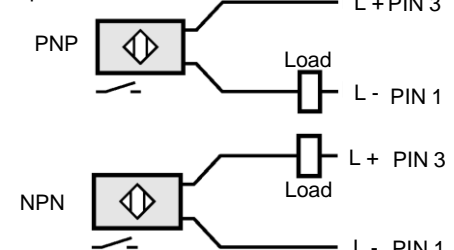
**RS40**



Max frequency = 1000Hz

**Type E4 (N.P.N + P.N.P. - 2 Wire)**  
10-30Vdc  
Bi-polar - Current sink/source

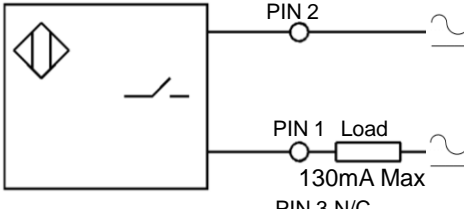
**RS30**



Max frequency = 1300Hz

**Type W** 20-240V AC/DC 50/60Hz  
(1 to 30 PPR only)

**RS30**



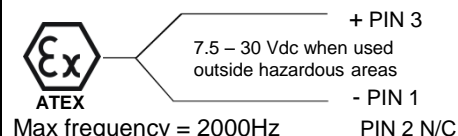
**Note**  
Minimum operating current = 5mA

Max frequency = 25Hz (AC) 1000Hz (DC)

**Type N (Namur)** 8-2 Vdc (1K $\Omega$ )  
Intrinsically safe circuits

**RS30**

The voltage and current characteristics of NAMUR sensor outputs are so low that they can be safely used in explosive environments. The power limitation is implemented in the corresponding equipment. This means that the circuit containing a NAMUR proximity sensor is only intrinsically safe if it is supplied via a corresponding isolating amplifier. Contact Rotech Systems for details of amplifiers available.



Max frequency = 2000Hz

# ROTECH SYSTEMS

Tel : +27 (0)13 693 8938/9

Website: [www.rotechsystems.com](http://www.rotechsystems.com)

Fax: +27 (0)13 693 8940

Email: [rotechsystems@mweb.co.za](mailto:rotechsystems@mweb.co.za)

Fax2Mail: +27 (0)86 616 7839



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