



ROTECH FOR RELIABILITY!

Why Accept Anything Less?

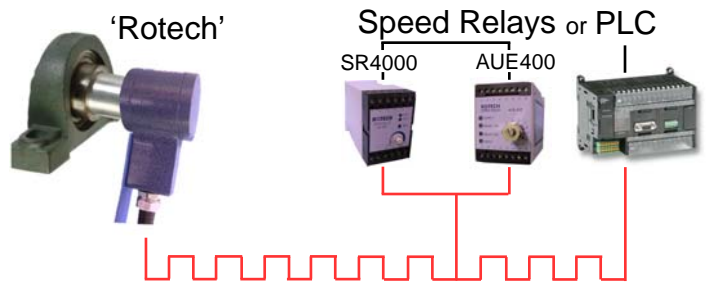
AE 2000 Series Aluminium Body Heavy Duty – End of Shaft

The AE 2000 series of Rotech shaft mounted sensors & encoders are manufactured in an extremely tough and durable aluminium casting with an industrial powder coated hammer blue finish.

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.

A wide range of number of pulses per revolution are available together with AC and DC electrical outputs.

APPLICATION EXAMPLE:



FOR MONITORING:

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

FEATURES:

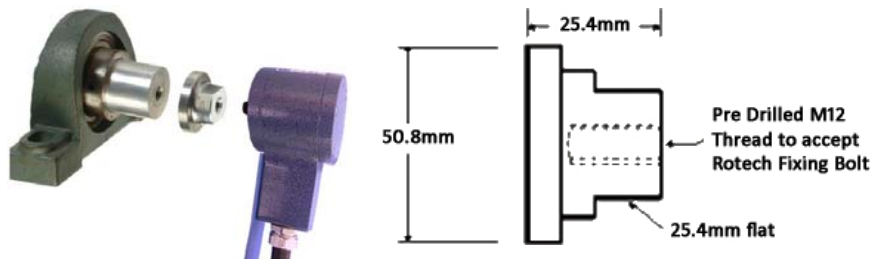
- Totally self contained (no guards required)
- Maintenance free for maximum reliability
- 1 to 1000 pulses per revolution
- Environment ingress-IP67
- -25 to +70, 100, 125, 150 deg Celsius versions available



NEW!
Also available with Brad® Quick Connect/Disconnect range of receptacles
Refer to AE2000-RS Series Data Sheet

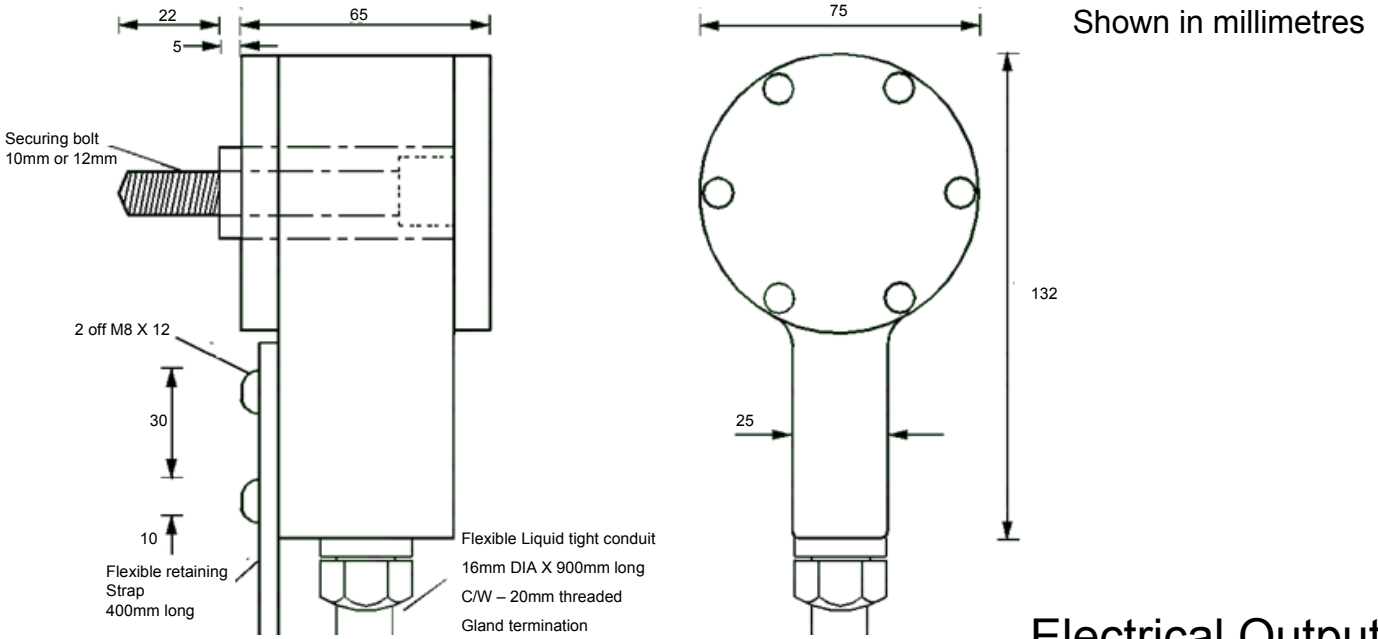
MAG-CON MAGNETIC CONNECTOR

For quick and easy installation of Rotech shaft mounted sensors & encoders



IMPORTANT NOTE:
MAXIMUM OPERATING SPEED IS 300RPM
RECOMMENDED MINIMUM
SHAFT DIAMETER FOR FITTING=35MM

Dimensions and Installation Information



Electrical Outputs

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)

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

Max frequency = 1500Hz

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

Max frequency = 600Hz

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

Max frequency = 600Hz

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

Max frequency = 1000Hz

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

Max frequency = 1300Hz

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

Note
 Minimum operating current = 5mA

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

Type IEC- IECEx approved 8-2 Vdc (1KΩ) Intrinsically safe Hazardous circuits

The voltage and current characteristics of these 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 this sensor is only intrinsically safe if it is supplied via a corresponding isolating amplifier. Contact Rotech Systems for details of amplifiers available.

7.5 - 30 Vdc when used outside hazardous areas

Max frequency = 2000Hz

Type E3 Q (Quadrature) 10-30Vdc

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

Max frequency = 15KHz

Type E2 Q (Quadrature) 1 to 40 PPR inclusive

Max frequency = 600Hz