

ROTECH FOR RELIABILITY!

Why Accept Anything Less?



Codes Explanation Motion Sensors/Encoders

(1) (2) (3) (4) (5)

Typical Example: **AE – 60 – E2 – HD – HS**

(1) Housing Type

- AE** = Aluminium Housing (1000,2000 Series) – End of shaft mounting
- MAE** = Min-Aluminium Housing (Mini 1000 Series) – End of shaft mounting
- PE** = Polypropylene Housing (4000 Series) – End of shaft mounting
- SSE** = Stainless Steel Housing (2000,3000 Series) – End of shaft mounting
- WE** = Steel Housing - Wheel Driven Trailing Arm-Series 5000 (**Utilising AE 2000 Unit**)
- PWE** = Steel Housing – Wheel Driven Trailing Arm-Series 6000 (**Utilising PE 4000 Unit**)
- AV** = Aluminium Housing –Vibration Sensor- (VS4000 Series)

(2) PPR Number of Pulses Per Revolution

Available standard pulse rates (dependant upon output type)- Others available to Order.

1, 2, 4, 6, 8, 10, 12, 13, 16, 20, 30, 32, 40, 50, 60, 100, 120, 180, 240, 250, 260, 300, 360, 500, 1000

(3) Electrical Signal Output Configuration (Incremental)

- N** = 2 wire – NAMUR Intrinsically Safe-Hazardous Areas 8.2V DC
- E** = 3 wire 10 to 30 VDC – NPN transistor-current sink
- E2** = 3 wire 10 to 30 VDC – PNP transistor-current source
- E3** = 3 wire 10 to 30 VDC – NPN/PNP transistor (Sink/Source)
- E4** = 2 wire 10 to 36 VDC – NPN/PNP transistor (Sink/Source) bipolar (Can be used in place of E3 Type)
- E3Q** = 4 wire 10 to 30VDC - 2x NPN/PNP Transistor (Sink/Source - Quadrature Configuration)
- NQ** = 2x 2 wire - N Type (as shown above) - Quadrature Configuration
- EQ** = 2x 3 wire - E Type (as shown above) - Quadrature Configuration
- E2Q** = 2x 3 wire = E2 Type (as shown above) - Quadrature Configuration
- W** = 2 wire, 20 to 240 VAC/DC (Max Switching Frequency 25Hz AC, 100 Hz DC).

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.

(4) Application Duty

- No Code (blank)** = Aluminium Standard Duty –Series 1000
- HD** = Aluminium/ Stainless Steel Heavy Duty-Series 2000
- XHD** = Aluminium/ Stainless Steel Extra Heavy Duty-Series 3000

(5) Variations on Standard Units

HS =High Speed Operation = Excess of 1000 RPM

- No Code (blank)** = -25°C to +70°C
- 100** = -25°C to +100°C
- 125** = -25°C to +125°C
- 150** = -40°C to +150°C
- 40** = - 40°C to +70°C

- No Code (blank)** = 12mm Thread Fixing Bolt (2000/3000 Series) 10mm Fixing Bolt (1000 Series).
- M10** = 10mm Thread Fixing bolt (2000 Series)
- M16** = 16mm Thread Fixing bolt (2000/3000 Series)

- RS30** = 3 pin Brad @ Connectivity Electrical Connector
- RS40** = 4 pin Brad @ Connectivity Electrical Connector

S = Special Bespoke Customer Requirements (refer to Rotech systems).

