

WEP 5000 Series Conveyor Belt Wheel Sensor

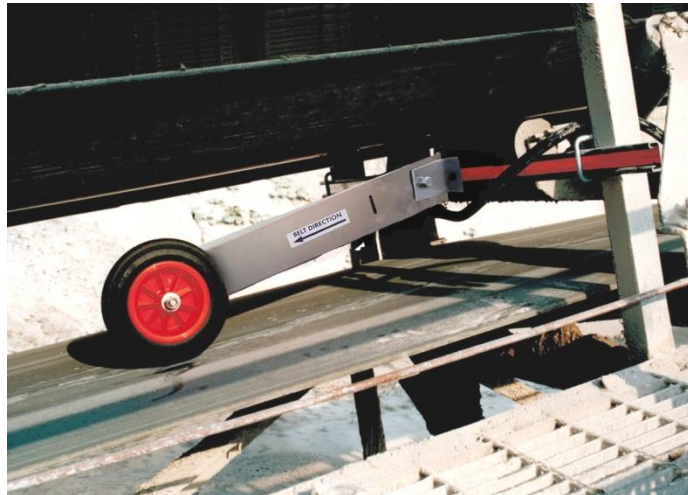
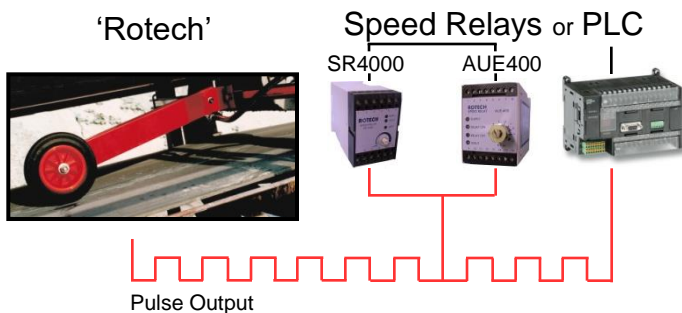
For monitoring belt speed, slip & distance measurement

Tough, robust and easily installed, units are designed for long and durable service in the harshest of environments.

For monitoring:

- Belt speed
- Belt slip
- Belt Stopped
- Belt Weighers (Tachometer)
- Distance/length measurement
- Rotation control/sequencing

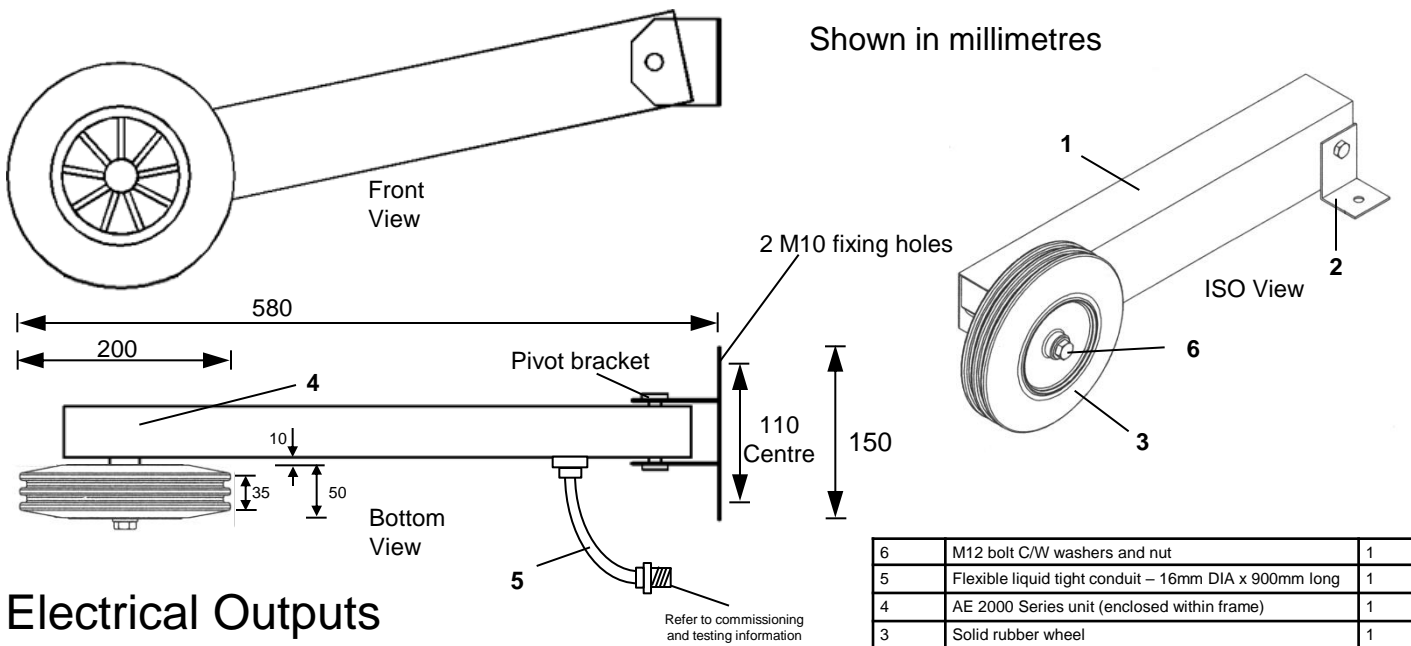
APPLICATION EXAMPLE:



FEATURES:

- Totally enclosed & self contained trailing arm running on return side of conveyor belt
- Maintenance free for maximum reliability
- Non standard wheel diameters available
- 1 to 1000 pulses per revolution (multiple outputs ac/dc)
- Environment ingress - IP66
- 25 to +100 deg Celsius versions

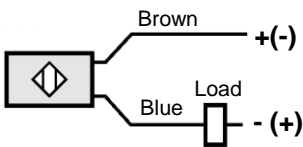
Dimensions and Installation Information



Electrical Outputs

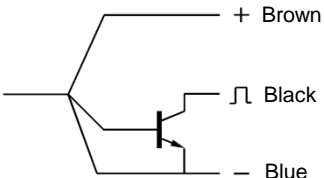
Available Pulse Rates (PPR)
1, 2, 4, 5, 6, 8, 10, 12, 16, 20, 30, 32, 40, 50, 60, 100, 120, 180, 240, 250, 300, 360, 500, 1000
(Dependent Upon Output Type)

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



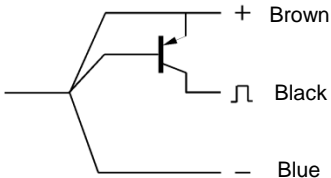
Max frequency = 1500Hz

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



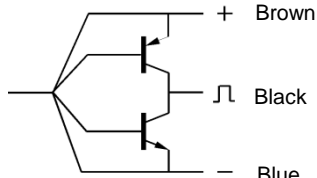
Max frequency = 600Hz

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



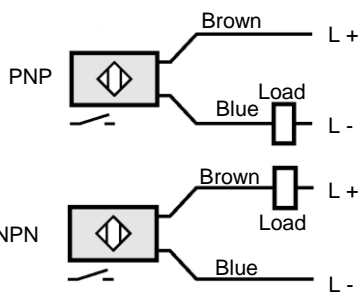
Max frequency = 600Hz

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



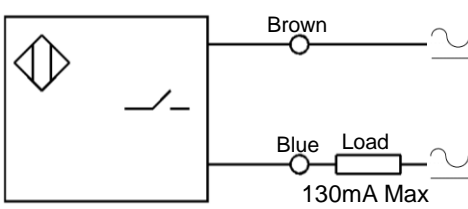
Max frequency = 1000Hz

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



Max frequency = 1300Hz

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

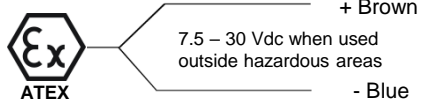


Note
Minimum operating current = 5mA

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

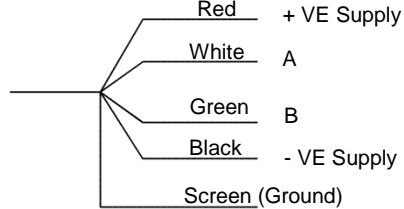
Type N (Namur) 8-2 Vdc (1KΩ)
Intrinsically safe circuits

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.

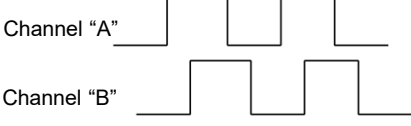


Max frequency = 2000Hz

Type E3 Q (Quadrature) 10-30Vdc

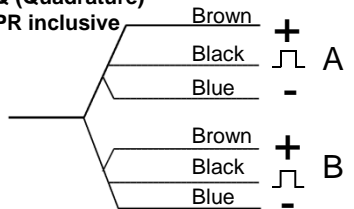


CH "A" Leads CH "B" for clockwise rotation viewed from shaft end of encoder



Max frequency = 15KHz

Type E2 Q (Quadrature)
1 to 40 PPR inclusive



Max frequency = 600Hz

ROTECH SYSTEMS

Tel : +27 (0)13 693 8938/9 Website: www.rotechsystems.co.za
Fax: +27 (0)13 693 8940 Email: admin@rotech.co.za
Fax2Mail: +27 (0)86 616 7839

