



## HEAVY DUTY OPTICAL ENCODER

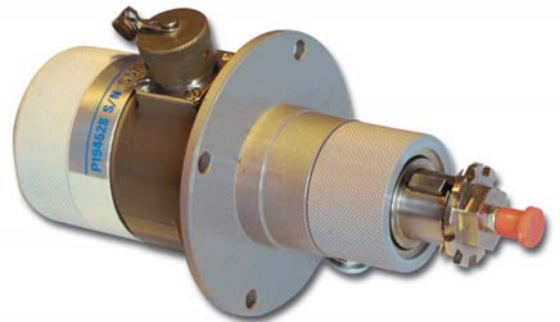
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### DESCRIPTION

The encoder or impulse generator is an opto-electronic sensor that transforms a circular movement into electrical information proportional to this movement.

The part is dustproof and made with materials which are « intrinsically secure » ; it can be installed in explosive atmospheres and is designed to operate in areas subject to severe vibration.

Bodet Aero can develop, define and manufacture sensors using many different technologies (optical, magnetic, etc.) according to a given specification: space limitations, environmental constraints, number of circuits to be measured, number of pulses etc.



### MAIN CHARACTERISTICS

#### ➤ Erreur ! Signet non défini. Consumption

- 5V / 65 mA for the emitter diodes
- 5 V à 15 V / 10 mA for the electronics

#### ➤ Erreur ! Signet non défini. Output signals

- 5 V TTL on A, A, Q et Q. — —
- Phase shift between A and Q :  $90^\circ \pm 30^\circ$  C controllable
- Repeatability between 2 consecutive wave fronts :  $\pm 0,5^\circ$  C
- Number of steps per turn : 300

### ENVIRONMENT

- Operating temperature :  $-25^\circ\text{C}$  to  $+75^\circ\text{C}$
- Storage temperature :  $-55^\circ\text{C}$  to  $+75^\circ\text{C}$
- Relative humidity : 95% to  $35^\circ\text{C}$
- Shock resistance : 50 g during 10 ms
- Vibration resistance :
  - 5 g from 10 to 60 Hz
  - 15 g from 10 to 60 Hz

### APPLICATIONS

Used on Oil Platform