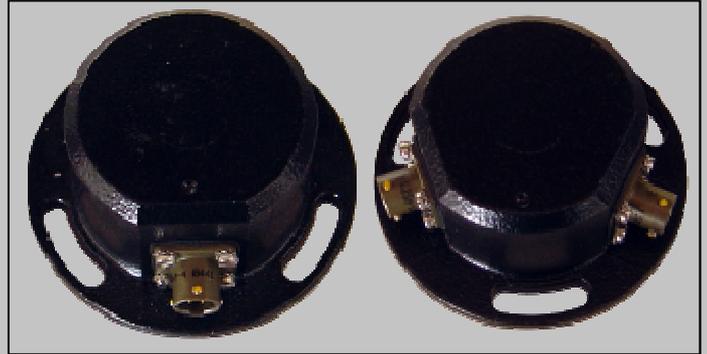


ASA10*180: ANGLE SENSOR

This brand new device is based on the use of an internal static sensor, driven by a proper inside microprocessor. Specifically designed for applications on mobile machines, its compact design and ease installation, together with the lack of inside mobile components offer a unique rugged solution, resumed in its 1000 g's proof. Suitable where 300° angle measuring is required, its basic control function consists in generating an analogue output signal corresponding to its angle to gravity. Typical applications are cranes, access platforms, fire ladders, excavators, drilling rigs, etc., wherever environmental immunity is required..



ASA sensor also exists in following configurations:

" P" = Equipped with a second input connector to allow another sensor signal "passing-through" and a consequent single connecting cable (2 section booms)

"W" = Under-water tight version up to 8 meters depth (special for buckets)

"H" = "Rugged" version equipped with increased mechanical resistance (nipples and hydraulic hose protection)

TECHNICAL DATA

ELECTRICAL CHARACTERISTICS:

- Highest reliability by using static components.
- Operating Power Supply Voltage: 5 Vcc ±1% (ASA10*180B: 9-30 VDC by battery)
- Output signal: 0 ÷ 5 Vcc equivalent to 13.8 mV/° on 10Kohm load
- Current sink : 70mA
- Accuracy : 0.3 deg

CERTIFICATIONS:

The ASA10-180 (all models) is conformed to the following directives and standards required by 89/336 CE, according to automotive standards:

1) EMC generic standards for emission, heavy industrial environment :

- Reference standard: EN 61000-6-4
- Base standard: EN 55011 (Radiated RF emissions)

2) Electromagnetic immunity, light industrial environment:

- Reference standard: EN 61000-6-2
- Base standard: EN 61000-4-2 (Electrostatic discharge)
- EN 61000-4-3 (Radiated RF immunity)
- EN 61000-4-4 (Fast transient "Burst")
- EN 61000-4-6 (Conducted RF immunity)

MECHANICAL CHARACTERISTICS AND RATINGS:

- Protection : IP67
- Vibrations endurance 10 g @ 50 Hz, 1000 g's shock proven
- Operating temperature range : from -20°C to +70°C (from -4°F to +158°F)

MECHANICAL DIMENSIONS:

