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Smart encoders & actuators

IF09, Impulse Splitter and Converter for Incremental Encoders

IF09 is a versatile and low-cost device designed to split AB0 or AB0 /AB0 signals supplied from an incremental encoder (either TTL / RS-422 or HTL) and provide them through two outputs that can be programmed individually to either TTL or HTL.

- *1 input for AB0 or AB0 /AB0 signals from a TTL / RS-422 or HTL encoder*
- *2 AB0 /AB0 TTL (5V) or HTL (10 ... 30V) independent outputs*
- *Input frequency 750 kHz (TTL) o 350 kHz (HTL)*
- *Power supply +5Vdc or +10 ... +30Vdc*

IF09 is an impulse splitter and converter designed to divide the input signals from a single incremental encoder into two independent channels at output. It is possible to connect at input either a TTL / RS-422 encoder (+5Vdc) or an HTL encoder (+10 ... 30Vdc); the unit accepts single-ended signals or differential signals in any industrial impulse format and level: single-ended HTL, RS-422, TTL-differential, HTL-differential.

The two outputs can be programmed individually and always provide all signals AB0 /AB0, even when the inverted signals are not available at input. The output signal level can be selected to +5V or to +10 ... +30V by means of the DIP switch. So for example we can connect a single-ended HTL encoder with +10 ... +30Vdc power supply and set the first output OUT1 to AB0 HTL and +10 ... +30V level and the second output OUT2 to AB0 /AB0 TTL-differential and +5V level. In this case the device operates as a splitter and as a converter at the same time.

The max. input frequency can be 750 kHz for TTL signals and 350 kHz for HTL signals.

IF09 also provides an auxiliary voltage output +5Vdc to supply the encoder.

The enclosure has a very small footprint and offers 35 mm top hat DIN rail mounting according to EN 60715.