



## OPERATING INSTRUCTIONS – IXARC ENCODER WITH SSI INTERFACE





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### **Purpose of this instruction handbook**

This manual explains how to configure the IXARC absolute rotary encoder with SSI interface applicable for both military and industrial applications with SSI interface.

### **General safety information and general safety instructions**



Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists, which will result in personal injury if the instructions are not followed.

### **Please Note!**

Electrical equipment should be serviced only by qualified personnel. No responsibility is assumed by POSITAL for any consequences arising out of the use of this material. This document is not intended as an instruction manual for untrained people.

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## 1. Operation

### 1.1. Preset Function

The SSI signals are available in the datasheet and connection plan.

#### To set the Preset:

- ▶ Preset - supply voltage to be applied to the wire/connector pin carrying the signal labelled “Preset” – see connection plan in encoder datasheet.
- ▶ Preset timing information – see the encoder datasheet.

#### Note:

For non-programmable encoder versions, the preset can only be set to a fixed value. Typically, it is zero. Another specific preset value can be factory set for customized product versions.

For programmable encoder versions a specific preset value can be set using the Ubifast Configuration Tool or can be factory set.

After the preset value is applied, the updated position value is kept even after a power-cycle.

### 1.2. DIR Function

#### To change the encoder counting direction, use the DIR function:

- ▶ DIR - supply voltage to be applied to the wire/connector pin carrying the signal labelled “DIR” – see connection plan in encoder datasheet.
- ▶ DIR timing information – see encoder datasheet.