# PROGRAMMABLE ENCODER

- INCREMENTAL OPTICAL ENCODER, DIAM. 58 MM

- USER PROGRAMMABLE UP TO 65536 PPR

- SELECTABLE BY USER: COUNTING DIRECTION, ZERO PULSE, OUTPUT VOLTAGE

- SOFTWARE FREE OF CHARGE

- USB PROGRAMMING CABLE

# TISP58
# TISPW58

ITALSENSOR
TEKEL

# MAIN BENEFITS

**Warehouse optimization** - ideal solution for different applications that require one single encoder's model, one mechanical setup with different resolutions **up to 65536 ppr**

**Lead time reduction** - timeline reduction in maintenance services

**Costs reduction of downtime -** reduction of time to configure encoders up to your needs. Counting direction, zero pulse and output voltage can be set by end user.

**Device diagnostic** through signaling LED on the encoder's housing.

**Zero adjust** through push button on the encoder's housing

**Easy operation** - no need of any expensive programming tool, a simple USB programming cable is required to power and program both encoders by PC/laptop USB port.

## TISP58



## SOLID SHAFT

**Body diameter: 58 mm**

**Type of flanges: square, servo standard, servo clip, FRE (REO 444)**

**Diameter shaft: 6, 8, 9.52, 10, 11, 11R**

**Resolution: from 1 to 65536 PPR**

**Output interfaces: LD2, PP2**

**Protection class: IP64, IP65, IP66**

## TISPW58



## HOLLOW SHAFT

**Body diameter: 58 mm**

**Mechanical assembly with antirotational spring**

**Diameter blind shaft: 6, 8, 9.52, 10, 11, 12, 12.7, 14, 15 (reducing bushes, except 15 mm)**

**Resolution: from 1 to 65536 PPR**

**Output interfaces: LD2, PP2**

**Protection class: IP64, IP65**

# PROGRAMMING

## STEP 1

### √ DOWNLOAD SOFTWARE & MANUALS

Download software and manuals for programmable encoders directly from Italsensor's website:

**http://www.italsensor.com/tisp58/**

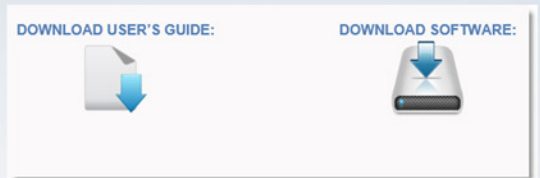**http://www.italsensor.com/programmable-tispw58/**

### √ INSTALLATION TISP MANAGER

Once download is completed, proceed with installation of file **TISP58 -Manager.exe** following the instructions of manual.

DOWNLOAD USER'S GUIDE:

DOWNLOAD SOFTWARE:

### TISP MANAGER



Setup - TISP58 Manager

TISP 58

Welcome to the TISP58 Manager Setup Wizard

This will install TISP58 Manager version 1.0.0.1 on your computer.

It is recommended that you close all other applications before continuing.

Click Next to continue, or Cancel to exit Setup.

Next >   Cancel

## STEP 2

### PROGRAMMING CABLE

### √ PROGRAMMING CABLE

Pick up the programming cable and connect it to a free **USB port** on PC, the other end with a 12 pin female connector is to be connected to the encoder's male connector.

Once finished, the green LED indicator on the encoder will turn green.

### √ ACTIVATING OF CONNECTION

Once connected, it allows you to select COM port pressing the button **Open COM**

If the operation completed successfully, the software proceeds to read the firmware release and enables configuration panel of encoder's parameters **ENCODER PARAMETERS**

USB

12 PIN FEMALE CONNECTOR

PUSH BUTTON

LED INDICATORS GREEN/RED

# PROGRAMMING

## STEP 3

### √ SETTING PARAMETERES

**Setting resolution:**
to set a new value write the desired resolution in the **PPR box**, valid values range from **1** to **65536** ppr. Press the **WRITE** button. The result of the operation is notified in the summary window - **COMMUNICATION LOG**

**Reading of the resolution set:**
press the **READ** button. If the operation is successful, the readed resolution will be reported into the text box on the left of reading button.

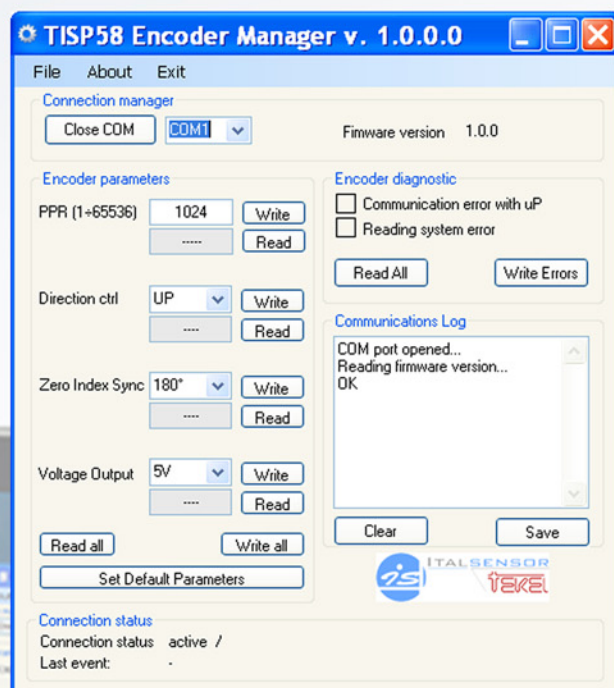In a similar way proceed with the setting of
- **counting direction;**
- **zero pulse;**
- **voltage output**

### √ SAVING CONFIGURATION

From the **File** menu select **SAVE CONFIGURATION** option, than choose the file name that will be used to save the actual configuration.

Press **OK** button, and if everything goes smoothly, the **FILE SAVED** notification will appear.

**TISP58 Encoder Manager v. 1.0.0.0**

File    About    Exit

**Connection manager**
Close COM | COM1    Fimware version    1.0.0

**Encoder parameters**

PPR (1÷65536)    1024    Write / -----    Read

Direction ctrl    UP    Write / ----    Read

Zero Index Sync    180°    Write / ----    Read

Voltage Output    5V    Write / ----    Read

Read all    Write all
Set Default Parameters

**Encoder diagnostic**
☐ Communication error with uP
☐ Reading system error
Read All    Write Errors

**Communications Log**
COM port opened...
Reading firmware version...
OK

Clear    Save

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**Connection status**
Connection status    active /
Last event:    -

For more details check user's manuals, available on our website www.italsensor.com
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