

Number : **TC8655** revision 0
Project number : 14200615
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Issued by : NMI Certin B.V.

In accordance with :
– WELMEC guide 8.8 “General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID”.
– OIML R117-1 Edition 2007 (E) “Dynamic measuring systems for liquids other than water”.

Producer :
Eltomatic A/S
Fabriksvej 6
9490 Pandrup
Denmark

Part : An **impulse encoder**, intended to be used as a part of a measuring installation.

Producer’s mark or name : Eltomatic A/S
Designation : 01-08

Characteristics :
Environment classes : M3 / E2
Temperature range ambient : -25 °C / +55 °C
Humidity : H3 (condensing)

In the description TC8655 revision 0 the additional characteristics are given.

Further properties and test results are described in the annexes:

- Description TC8655 revision 0;
- Documentation folder TC8655-1.

Issuing Authority

NMI Certin B.V.
11 December 2014



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Head Certification Board

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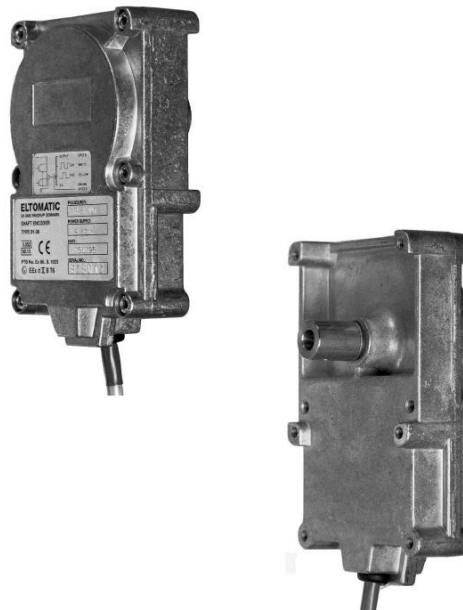
1 General information about the impulse encoder

Properties of the impulse encoder, whether mentioned or not, shall not be in conflict with the legislation.

The impulse encoder has been approved as part of a calculating and indicating device, on the basis of the applicable OIML R117 (2007) requirements. Because of that it should be used in combination with an approved calculating and indicating device only.

The impulse output specifications should match the calculating and indicating device's impulse input specifications.

This Parts Certificate is the positive result of the applied voluntary, modular approach, for a component of a measuring instrument, as described in WELMEC guide 8.8. A complete measuring instrument must be covered by an EC type-examination certificate.



1.1 Essential parts

The impulse encoder is composed of the following essential parts:

Part	Documentation
Optical transmitter board; drawing 40.2023B	8655/0-01, -02
Optical receiver board; drawing 40.2024B	8655/0-03, -04
Main PCB, without microprocessor: 40.2025	8655/0-05, -06
Main PCB, with microprocessor: 40.2340	8655/0-07, -08



Description

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1.2 Essential characteristics

1.2.1 Software for the microprocessor

1.2.1.1 The software fulfills the Welmec 7.2 chapter P and extension I. Chapter U and the extensions L, T, S and D do not apply.

1.2.1.2 The SW is linked to the specific HW serial number which again is linked to a product specification which holds the specific SW version.

It should be possible to view the software identification, for instance inscribed on a sealed data plate.

1.2.2 Power supply voltage.

1.2.3 Impulse specifications

1.2.3.1 Number of impulses per revolution.

1.2.3.2 Number of output channels (2 or 3).

1.2.3.3 Output impulse duty cycle.

1.2.3.4 Phase between the output channels.

1.2.3.5 Output stage type (totem pole or PNP or NPN).

1.3 Essential shapes

1.3.1 The following information shall be inscribed, for instance on one or more sealed data plates:

- name of the producer;
- type;
- serial number and year of manufacture;
- Parts Certificate no. TC8655;
- The information as specified in paragraphs 1.2.2. and 1.2.3. of this document.

1.3.2 The date plate or data plates and the sealing shall be durable.

1.3.3 Sealing; see chapter 2.

2 Sealing

The date plate or data plates are sealed to the housing.

3 Conditions for Approval

The Parts Certificate may be used without permission from the holder of this document.

4 Test reports

An overview of the performed tests and results is given in the test report:

- NMI-14200615-01