



Parts Certificate

Number: ZR 141/21 - 0217

Issued by: **Český metrologický institut**
Okružní 31
638 00 Brno
Česká republika

In accordance with: **WELMEC Guide 8.8, Issue 1** “General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID
OIML R117:2007

Issued to: **ELTOMATIC A/S**
Fabriksvej 6
DK-9490 Pandrup
Denmark

In respect of: **Pulser**
(component of a dispenser)

Type: **01-09**
3 channels output

Manufacturer: **ELTOMATIC A/S**
Denmark

Characteristics:	Accuracy class	0.5
	Ambient temperature range	-25 °C to 55 °C

Document number: **0511-ZR-A001-21**

Description: Measurement transducer is described in the descriptive annex. This certificate contains 3 pages.

Brno, 16 February 2021




RNDr. Pavel Klenovský
Director General

Descriptive annex**1 Device description**

01-09 3 channels output pulser can be used as a component of dynamic measuring systems for liquids other than water, especially dispensers. The devices meet all requirements of the International recommendations OIML R117-1.

01-09 3 channels output pulser is intended for conversion of the rotating movement of the measuring sensor shaft to the pulse signal. Pulse signal is in the form of squarewave 50% duty cycle $\pm 10\%$ with either 1, 2 or 3 output channels. The pulser is intended to be mounted directly on the measuring sensor.

The pulser can be connected to any calculating / indicating device that is capable to process output signal of this device.

2 Basic technical and metrological data

Type designation	01-09 3 channels output
Accuracy class	0.5
Power supply	5-24 VDC
Ambient temperature range [°C]	-25 / 55
Environmental classes	E1, M1, H3
Max rotation speed	1000 rpm
Output stage	NPN, PNP, TOT
Pulses per revolution	Up to 400 pulses / rev.
Pulse form	squarewave 50% duty cycle $\pm 10\%$ or Fixed pulse length

3 Test

Examinations and technical tests of the 01-09 3 channels output pulser have been performed in conformity with International Recommendation OIML R 117-1 *Dynamic measuring systems for liquids other than water* and according to International recommendation OIML R117-2 Edition 2014 *Part 2: Metrological controls and performance tests*.

Examination and tests:

- Evaluation report No. 6015-PT-P3032-20,
- EMC Test report No. 8551-PT-E0262-20.

4 The device data

At least the following data are stated on the device (type plate):

- Number of the approval certificate (Parts certificate),
- Manufacturer's name, mark or trademark,
- Type designation,
- Serial number,
- Pulses / revolution.

5 Conditions for approval and sealing

The pulser has to be designed in accordance to this Parts certificate.

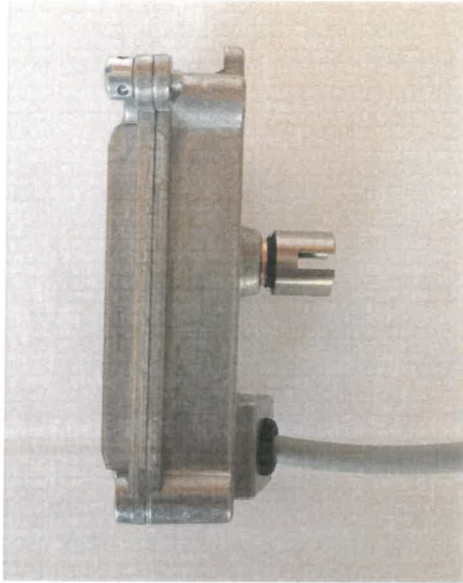
Complete measuring system has to be covered by EU-type examination certificate.

Seals:

- Cover of the pulser by one sealed screw – according to picture No. 2
- Type plate



Picture No. 1: Construction of the 01-09 3 channels output pulser and typeplate



ELTOMATIC A/S
DK 9490 PANDRUP DENMARK
SHAFT ENCODER TYPE 01-09

IECEX TUN 09.0017X

CE 2804 Ex II 2 G db IIB T6 Gb 5.552

TÜV 09 ATEX 555513X 92.14

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POWER SUPPLY:

5-24VDC

Maximum 1000 RPM
PULSES / REV:

3 x 227

SERIAL NO.:

2144485

DATE:

20YYMMDD

P/N: 98.3113

www.eltomatic.com

Max. 32 VDC
I max. 60mA



Picture No. 2: Sealing of the 01-09 3 channels output pulser

