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Izdajatelj certifikata: SI-PASS-CA
Številka certifikata: 4DBE857A000000005757
Potek veljavnosti: 14. 04. 2030
Čas podpisa: 16. 02. 2026 15:24
Št. dokumenta: 6413-10/2025-2182-9

REPUBLIKA SLOVENIJA
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SIST EN ISO/IEC 17065
CP-014

CERTIFIKAT o EU-pregledu tipa

EU-Type Examination Certificate

št. /*No*. **SI 15-01-003 MID** revizija št. / Revision No.: **4**

certifikat izdal *issued by*	**Urad RS za meroslovje** *Metrology Institute of the Republic of Slovenia (MIRS)*
Priglašen organ št. *Notified body No.*	**1376**
na podlagi *in accordance with*	1. odstavka 9. člena Zakona o meroslovju (Ur. list RS, št. 26/05 – uradno prečiščeno besedilo) in 14. člena Pravilnika o merilnih instrumentih (Uradni list RS, št. 19/16 in 98/23), ki povzema vsebino Direktive 2014/32/EU Evropskega parlamenta in Sveta z dne 26. februarja 2014 o harmonizaciji zakonodaj držav članic v zvezi z dostopnostjo merilnih instrumentov na trgu (prenovitev *Metrology Act (OJ of RS, No. 26/05), Article 9, Paragraph 1, and Rules on measuring instruments (OJ of RS, No. 19/16 and 98/23), Article 14, which implements Directive 2014/32/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of measuring instruments (recast)*
izdano proizvajalcu *issued to manufacturer*	Lotrič meroslovje d. o. o. Selca 163, 4227 Selca, Slovenija
za *in respect of*	**Stroji za merjenje dolžine žic in kabla** ***Wire and cable length measuring device***
tip *type*	M1.1, M1.2, M2.1, M2.2
bistvene zahteve *essential requirements*	Pravilnik o merilnih instrumentih, priloga 1, Bistvene zahteve, in Priloga XI (MI-009), Stroji za merjenje dolžine žic in kabla *Rules on measuring instruments, which implements Measuring Instruments Directive, Annex 1 Essential requirements, and Annex XI (MI-009) Dimensional measuring instruments*
veljavnost do *valid until*	9. 12. 2035

Glavne značilnosti, pogoji in omejitve so podani v prilogi, ki je sestavni del tega certifikata.
The principal characteristics, approval conditions are set out in the Annex hereto, which forms part of the this certificate.

Št. strani priloge: 4
No. of Annex pages:

Ta revizija certifikata v celoti zamenjuje prejšnjo verzijo certifikata.
This revision of the certificate completely replaces previous version.

Št. dokumenta: 6413-10/2025/9
Ljubljana, 16. 2. 2026

Postopek vodil:
mag. Grega Kovačič
Sekretar

dr. Samo Kopač
direktor

Z izdajo tega certifikata Urad RS za meroslovje ne prevzema odgovornosti za posamezne primerke tipa merila.

1. Opis merila (Instrument)

Wire and cable length measuring device M1.1, M1.2, M2.1 and M2.2 is used for measuring the length of round profile wires and cables (Figure 1).

Figure 1: Wire and cable length measuring device (M1.1, M1.2 (left) and M2.1, M2.2 (right)).

2. Sestava merila (Design of the instrument)

2.1. Zgradba (Construction)

Parts of wire and cable length measuring device M1.1, M1.2, M2.1 and M2.2 are:

- Housing (guidance),
- Additional guidance elements (for M2.1 and M2.2),
- Base plate (swing arm with spacer),
- Measuring wheel,
- Revolution mechanical counter,
- Zero setting lever.

2.2. Merilni pretvornik (Sensor)

The measuring wheel made of aluminum has a nominal diameter of 158,72 mm – 158,82 mm with rubber coating. The pressure on the wire or cable to be measured is done by weigh of the measuring wheel, base plate and revolution mechanical counter.

2.3. Obdelava izmerjenih vrednosti (Measurement value processing)

2.3.1. Princip delovanja (Operating principle)

Prior to each measurement it is necessary to set the inlet height and width of the sample. This is done with moving the stops (if any) so that it remains between the measured samples and the limiter 1 mm to 2 mm air gap. After setting the width and height of the device we shall put specimen on the device and put on measuring wheel and align it with the edge of devices.
The measurement result or desired length of the sample is obtained at the edge of the guidance.

2.3.2. Strojna oprema (Hardware)

The revolutions of the measuring wheel are connected directly on the shaft of the revolution mechanical counter. In the device there is mechanical indicator with red numbers (cm) and white numbers (m) or with white small numbers (Figure 2). The cable shall have guidance at least 10 cm before and 10 cm after the center of the wheel. M1 and M2 have different type of guidance.

Figure 2: Two types of revolution mechanical counters (M1.2, M2.2 (left), M1.1, M2.1 (right)).

2.3.3. Programska oprema (Software)

Device has no software.

2.4. Kazanje izmerjenih vrednosti (Indication of the measurement results)

The measured value is displayed on the display panel of the revolution mechanical counter.

2.5. Dopustne funkcije in naprave (Permissible functions and devices)

There are no additional permissible functions and devices.

2.6. Tehnična dokumentacija (Technical documentation)

For the Wire and cable length measuring device M1.1, M1.2, M2.1 and M2.2 apply technical documentation that is stored at the Metrology Institute of Republic of Slovenia in cases with numbers 6413-2/2015, 6413-1/2016 and 6413-10/2025-2182.

2.7. Vgrajena oprema in funkcije, ki niso predmet odobritve (Integrated equipment and functions not subject to approval)

There is no integrated equipment and function subjected to the approval.

3. Tehnični podatki (Technical data)

Type	M1.1, M1.2	M2.1, M2.2
Measuring unit	m, cm	m, cm
Scale discretion	1 cm	1 cm
Maximum measuring speed	50 m/min	50 m/min
Minimum measuring length	5 m	5 m
Temperature range	5 °C to 30 °C	5 °C to 30 °C
Mechanic environment	M1	M1
Electromagnetic environment	N/A	N/A
Accuracy class	III	III
Outer diameter of measured cable	ϕ3 - ϕ16 mm	ϕ5 - ϕ50 mm

4. Vmesniki in pogoji združljivosti (Interfaces and compatibility conditions)

4.1. Vmesniki (Interfaces)

No additional interfaces.

4.2. Periferne naprave (Peripheral devices)

There are no peripheral devices.

5. Zahteve za izdelavo, dajanje v uporabo in pravilno uporabo (Requirements on production, putting into use and consistent utilisation)

5.1. Zahteve za izdelavo (Requirements on production)

Wire and cable length measuring device must be constructed in accordance with the requirements of the section 2 of this certificate.

For measuring wheel, the requirements of section 2.2 of this certificate shall be fulfilled.

5.2. Zahteve za dajanje v uporabo (Requirements on putting into use)

Before the first application visually check the compliance with the approved type.

Information about measurements result, date of measurement and measured material shall be kept for at least 3 months. On all business documents (delivery notes, labels, etc.) the following sentence should be written: "Marked with a unique identification number, measurement results can be viewed in the measurement protocol of the wire and cable length measuring device."

5.3. Zahteve za pravilno uporabo (Requiremet for consistent utilisation)

Measurement instrument shall be use in accordance with Operational manual.

6. Nadzor merila v uporabi (Surveillance of the instrument in use)

6.1. Potrebna dokumentacija (Documentation necessary)

- EC type examination certificate,
- Operation manual.

6.2. Posebna oprema ali programska oprema (Special equipment or software)

Not relevant.

6.3. Identifikacija programske opreme (Indentification of software)

Not relevant.

6.4. Identifikacija strojne opreme (Indentification of hardware)

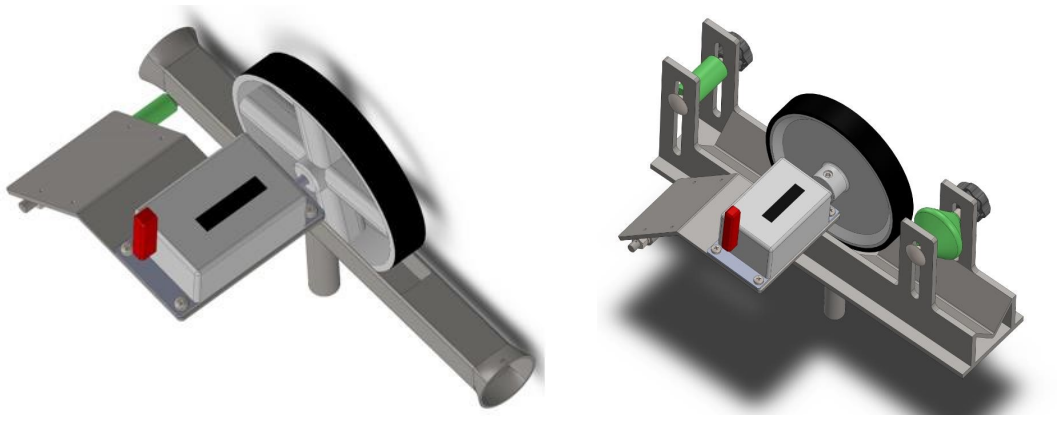

Figure 3: Wire and cable length measuring device M1.1, M1.2 (left) and M2.1, M2.2 (right).

Sketch of the wire and cable length measuring device of type M1.x and M2.x is shown on Figure 3.

7. Zaščita (Security measures)

Descriptive plate shall be secured with a seal unless it cannot be removed without being destroyed. Part of the instrument which may not be dismantled or adjusted by the user must be secured by either a wire and seal or a temper evident label and securing mark. Securing mark shall be a mark of the manufacturer or manufacturer's representative defined in the approved quality system by Notified Body.

The wire and cable length measuring devices are sealed at the following places which are shown on the Figure 4:

- The hole close to the screws which connect the revolution mechanical counter with base plate – protective seals,
- The screw on the measuring wheel – protective seal,
- The screw on a swing arm – protective seal.

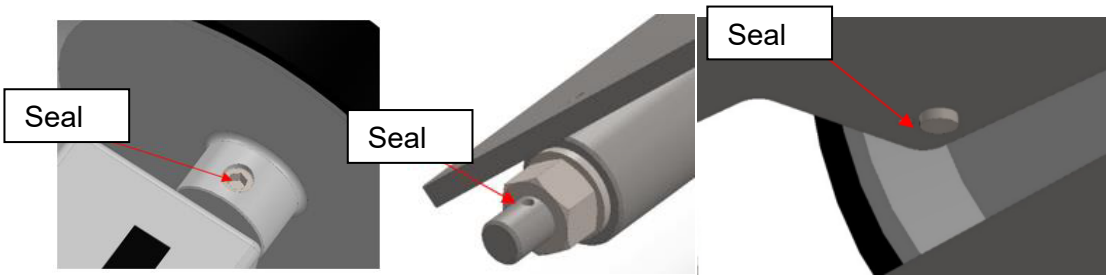

Figure 4: Location of sealings in the form of seal

8. Oznake in napisi (Markings and inscriptions)

Markings and inscriptions shall be grouped together in front of base plate of wire and cable length measuring device as it shown on Figure 4.

On the name plate the following inscriptions shall be written:

- CE marking and supplementary metrology marking,
- Symbol or name of manufacturer, with address,
- Accuracy class,
- Minimal and maximal outer diameter of the measured material,
- Minimum measurable length,
- The number of the EU certificate (SI 15-01-003 MID),
- Maximum measurable speed,
- Type designation,
- Serial number of the device.

9. Spremembe (Changes)

Revision 2:

- In point 2.6, new documentation was added.
- Point 5.3 was added.
- New pictures in points 1 and 6.4 (now for M1.2 and M2.2), 2.3.2 (new picture for the left mechanical counter).
- Addition and changes in point 2.1 (Construction).
- Through whole document "cable length measuring device" is changed to "wire and cable length measuring device".

Revision 3:

- Updated the validity period of the certificate and corrected the producer's name to the full, legally accurate version.

Revision 4:

- Description of Figure 2 was updated.