



SLOVENSKI STANDARD

oSIST prEN 17750:2021

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Kmetijski in gozdarski stroji - Naprave za svetlobno signalizacijo in namestitev na priklučke

Agricultural and forestry machinery - Light-signalling devices and installation on mounted implements

Land- und Forstmaschinen - Lichtsignaleinrichtungen und Anbau an Anbaugeräten

Matériel agricole et forestier - Dispositifs de signalisation lumineuse et installation sur outils portés

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Agricultural and forestry machinery - Light-signalling devices and installation on mounted implements

Matériel agricole et forestier - Dispositifs de signalisation lumineuse et installation sur outils portés

Land- und Forstmaschinen - Lichtsignaleinrichtungen und Anbau an Anbaugeräten

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 17750:2021) has been prepared by Technical Committee CEN/TC 144 “Tractors and machinery for agriculture and forestry”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

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Introduction

The visibility of agricultural vehicles is of great importance for road safety.

Lighting and light-signalling devices such as lights, light-signalling devices, reflectors, conspicuity markings, signalling foils, etc. are used for this purpose. Their number and kind of installation to mounted implements is usually regulated in the respective national road traffic regulations.

Whereas there is an EU type-approval procedure for agricultural tractors, trailers and towed interchangeable equipment with corresponding harmonized requirements, there is no harmonized set of regulations for mounted implements. Mounted implements are also not covered by the relevant UN Regulation No 86 because they are not vehicles, systems, components and separate technical units within the meaning of UN/WP.29 Resolution R.E.3.

The respective national regulations for the lighting and marking of mounted implements are very similar within the EU Member States, but nevertheless differ slightly in detail.

For these reasons, this document is intended to provide a basis for a uniform approach to the installation of lighting and light-signalling devices to mounted implements. It has been prepared on the basis of the requirements of UN Regulation No 86, as these requirements cannot be applied directly to mounted implements for formal reasons.

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1 Scope

This document applies to front and rear-mounted implements on agricultural or forestry tractors, trailers or on towed machinery.

It specifies the requirements for lighting and light-signalling devices to be installed on the implement for safe on-road use.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

UN Regulation No 86, *Uniform provisions concerning the approval of agricultural or forestry vehicles with regard to the installation of lighting and light-signalling devices*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at <https://www.electropedia.org/>

— ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

mounted implement

device or machine that performs a specific operation and which is normally attached to an agricultural or forestry vehicle on the rear or front three-point linkage, and that is fully raised from the ground or that cannot articulate around a vertical axis in relation to the vehicle

3.2.1

rear mounted implement

mounted implement attached to the rear three-point linkage

3.2.2

front mounted implement

mounted implement attached to the front three-point linkage

4 Signalling requirements

4.1 General requirements

4.1.1 As mounted implements shall be considered as part of the vehicles to which they are attached, lighting and light-signalling devices are mandatory as specified in this standard on mounted implements:

- if the vehicle with the mounted implement, exceeds the installation requirements in accordance to UN Regulation No 86, or
- if the geometric visibility, according to UN Regulation No 86, of the vehicle lighting and light-signalling devices is obscured by the mounted implement.

Otherwise, the presence of lighting and light-signalling devices according to this document is allowed.

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4.1.2 According to 4.1.1, depending on the combination of tractor and mounted implement, the operator's manual shall specify how to perform an assessment and how to equip and adjust the implement with the lighting and light-signalling devices. See also Clause 5.

If the mounted implement is equipped with lighting and light-signalling devices, then the manufacturer shall define a range of the height of the lower link attachment for road transport, at which the lighting and light-signalling devices apply to this standard. See also Clause 5.

4.1.3 The dimensional requirements shall be measured with the mounted implement adjusted at the height position for road transport prescribed by the manufacturer in the operator's manual (see Clause 5) and all components shall be in the position for road transport.

4.1.4 The appropriate general specifications of UN Regulation No 86, Clause 5 apply.

4.1.5 In order to facilitate the operations of working use, lighting and light-signalling devices can be pivotable or removable. However during the circulation on public roads, mounted implements shall be equipped with lighting and signalling devices.

4.2 Devices for front-mounted implements**4.2.1 Direction-indicator lamps**

Direction-indicator lamps shall comply with UN Regulation No 86, 6.5.

NOTE In the case of failure of any one of the direction-indicator lamps of mounted implements, it is not necessary to indicate it on the tractor by means of an operational tell-tales.

4.2.2 Front position lamps

Front position lamps shall comply with UN Regulation No 86, 6.8.

4.2.3 End-outline marker lamps

End-outline marker lamps shall comply with UN Regulation No 86, 6.12.

4.2.4 Front retro-reflectors, non-triangular

Non-triangular front retro-reflectors shall comply with UN Regulation No 86, 6.17.

When signalling panels according to 4.2.5 are provided to indicate the presence of the implement when circulating on public road, front retro-reflectors are optional.

4.2.5 Signalling panel and signalling foil

Signalling panel and signalling foil shall comply with UN Regulation No 86, 6.26 and Annex 6.

The signalling panels and signalling foils shall be mounted at no more than 100 mm from the extreme outer edge of the implement.

This value may be increased if the shape of the bodywork of the implement makes it impossible to keep within 100 mm, but it shall be as close as possible to 100 mm.

4.3 Devices for rear-mounted implements**4.3.1 Direction-indicator lamps**

Direction-indicator lamps shall comply with UN Regulation No 86, 6.5.

NOTE In the case of failure of any one of the direction-indicator lamps of mounted implements, it is not necessary to indicate it on the tractor by means of an operational tell-tales.

4.3.2 Stop lamps

Stop lamps shall comply with UN Regulation No 86, 6.7.

4.3.3 Front position lamps

Front position lamps shall comply with UN Regulation No 86, 6.8.

4.3.4 Rear position lamps

Rear position lamps shall comply with UN Regulation No 86, 6.9.

4.3.5 End-outline marker lamps

End-outline marker lamps shall comply with UN Regulation No 86, 6.12.

4.3.6 Front retro-reflectors, non-triangular

Non-triangular front retro-reflectors shall comply with UN Regulation No 86, 6.17.

When signalling panels according to 4.3.7 are provided to indicate the presence of the implement when circulating on public road, front retro-reflectors are optional.

4.3.7 Signalling panel and signalling foil

Signalling panel and signalling foil shall comply with UN Regulation No 86, 6.26 and Annex 6.

The signalling panels and signalling foils shall be mounted at no more than 100 mm from the extreme outer edge of the implement.

This value may be increased if the shape of the bodywork of the implement makes it impossible to keep within 100 mm, but it shall be as close as possible to 100 mm.

4.3.8 Rear retro-reflectors

4.3.8.1 General

When signalling panels according to 4.3.7 are provided to indicate the presence of the implement when circulating on public road, rear retro-reflectors are optional.

When Triangular or Non-triangular rear retro-reflectors are installed, they shall comply with 4.3.8.2 or 4.3.8.3 respectively.

4.3.8.2 Triangular

Triangular rear retro-reflectors shall comply with UN Regulation No 86, 6.25. Triangular Rear retro-reflectors are accepted on all mounted implements, even when they are designed for installation onto a tractor.

4.3.8.3 Non-triangular

Non-triangular rear retro-reflectors shall comply with UN Regulation No 86, 6.14. Non-Triangular Rear retro-reflectors are not required if triangular rear retro-reflectors (4.3.8.2) are present.

4.4 Side conspicuity on front and rear mounted implements

4.4.1 General

At least one of the devices specified in 4.4.2 to 4.4.5 or a combination thereof shall be installed at the sides of the implement.

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4.4.2 Side-marker lamps

Side-marker lamps shall comply with UN Regulation No 86, 6.18.

4.4.3 Side-retro reflectors

Side-retro reflectors shall comply with UN Regulation No 86, 6.15.

4.4.4 Conspicuity markings

Conspicuity markings shall comply with UN Regulation No 86, 6.21.

4.4.5 Signalling panel and signalling foil

Signalling panel and signalling foil shall comply with UN Regulation No 86, 6.26 and Annex 6.

5 Operator's manual

The operator's manual shall contain the following information:

- a) recommendation for the position (i.e. minimum and maximum heights of the lower link attachment) at which the mounted implement shall be set for circulation on public roads (see also 4.1.2);
- b) recommendation that the user assesses if lighting and light-signalling devices are mandatory according to 4.1.1;
- c) information on how to perform an assessment and what are the requirements (see also 4.1.2).

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