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Electric-electronic interface between chassis-cab and bodywork of refuse collection vehicles (RCVs)

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Electric-electronic interface between chassis-cab and bodywork of refuse collection vehicles (RCVs)

Interface électrique-électronique entre le châssis-cabine et la superstructure des bennes de collecte des déchets

CAN-Schnittstelle zwischen Fahrgestellen und Aufbau von Abfallsammelfahrzeugen

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Foreword

This document (CEN/TR 16596:2013) has been prepared by Technical Committee CEN/TC 183 "Waste management", the secretariat of which is held by DIN.

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Introduction

On September 29, 2009, CEN/TC 183/WG 2 mandated its PWG 5 to work on a proposal for the CAN communication between the chassis-cab and the bodywork of RCVs. Based on an earlier proposal (PWG 5 from 2002 to 2005), the experts of PWG 5 discussed the possibilities and concluded in the results shown in this document.

To comply with the requirements of the relevant safety Directives and Standards, it is unavoidable to use electronic controls on the RCV chassis-cab and on the bodywork of RCVs because the control devices have to communicate to get the RCV working in proper and safe conditions.

This document contains a proposal for an interface between the chassis-cab and the bodywork in terms of electrical wiring including plugs and positions for the plugs as well as an adequate CAN protocol.

1 Scope

This Technical Report proposes a standardized interface between the chassis-cab and the bodywork of refuse collection vehicles. The solution, initially for vehicles with hard wired interface and CAN interface, is developed into full CAN communication between the bodywork and the chassis-cab.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1501-1:2011, Refuse collection vehicles — General requirements and safety requirements — Part 1: Rear loaded refuse collection vehicles

EN 1501-5:2011, Refuse collection vehicles — General requirements and safety requirements — Part 5: Lifting devices for refuse collection vehicles

SAE J1939/71:2010-02, Vehicle application layer

koniec náhľadu – text ďalej pokračuje v platenej verzii STN