
**Road vehicles — Fully automatic
coupling systems 24 V (FACS)
for heavy commercial vehicle
combinations —**

Part 2:

**Electrical and pneumatic interface for
50 mm fifth wheel couplings**

*Véhicules routiers — Dispositifs d'attelage entièrement automatiques
(FACS) à 24 V pour ensembles routiers lourds —*

*Partie 2: Interface électrique et pneumatique pour sellettes d'attelage
de 50 mm*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Requirements	2
4.1 General.....	2
4.2 Tractor and semi-trailer.....	3
4.3 Mechanical interface, Manual operation.....	3
4.4 EPI module.....	3
4.5 Mating of the two EPI parts.....	3
4.6 Guiding and alignment.....	4
4.6.1 General.....	4
4.6.2 Installation requirements of EPI socket module.....	5
4.6.3 Installation requirements of semi-trailer-mounted EPI module.....	5
4.6.4 Perpendicular degree of freedom of contacts.....	6
4.6.5 Pneumatic valves in EPI socket module.....	6
4.7 Encapsulation and protection.....	6
4.7.1 General.....	6
4.7.2 EPI plug module protection cover actuation.....	6
4.7.3 Gasket between plug and socket.....	7
4.8 Automation of landing legs.....	7
4.9 ISO 11992 cable length.....	7
4.10 Mixed mode operation.....	7
5 Tests and specific requirements	7
5.1 General.....	7
5.2 Visual examination.....	8
5.3 Dimensional check.....	8
5.4 Connection and disconnection.....	8
5.5 Locking device operation.....	9
5.5.1 Application.....	9
5.5.2 Requirements.....	9
5.6 Current carrying capacity.....	9
5.7 Connection resistance (voltage drop), cable capacitance and pneumatics.....	9
5.8 Current cycling.....	11
5.9 Withstand voltage.....	12
5.10 Influence of water.....	12
5.11 Protection against dust.....	12
5.12 Endurance.....	12
5.13 Vibration.....	12
5.14 Shock resistance.....	12
5.15 Drop test.....	13
5.16 Temperature/humidity cycling.....	13
5.17 Salt spray.....	13
5.18 Chemical resistance.....	13
5.19 Leakage test of pneumatic connections.....	13
5.20 Functional test of protection covers.....	13
Annex A (normative) EPI module — Dimensional characteristics	14
Annex B (normative) EPI module — Contact allocation	23
Annex C (informative) Mixed mode operation	25
Bibliography	29

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 40, *Specific aspects for light and heavy commercial vehicles, busses and trailers*.

This second edition cancels and replaces the first edition (ISO 13044-2:2013), which has been technically revised. The main changes compared to the previous edition are as follows:

— changes to the normative references.

A list of all the parts in the ISO 13044 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document specifies the integrated electrical and pneumatic connections of an automated fifth wheel coupling system for articulated vehicles and related components.

Fully automated coupling systems improve safety for the driver and for the vehicle combinations. They also improve the work conditions for the driver and reduce cost for the end user.

- a) Higher safety standard is achieved for example by:
 - a reduction of operational accidents,
 - less injured drivers because there is no need for drivers to stay in the dangerous zone between the towing and the towed vehicle while uncoupling.
- b) Higher comfort level is achieved for example by:
 - elimination of necessity to access the coupling, landing gears and supply lines,
 - reduction of physical demands when operating the coupling and the landing gears or when climbing on or descending from chassis to manually connect or disconnect the supply lines.
- c) Cost reduction for end user is achieved for example by:
 - less repair and maintenance of cables and pipes,
 - less inactive periods for the vehicle combination due to less damage and repair,
 - new components create space for future extensions and potentials.

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