



Finnish Institute of
Occupational Health

FIOH
notified by the Ministry of Social Affairs and Health and identified under
0403 grants

EC TYPE EXAMINATION CERTIFICATE


16468CLS01

for level dependent earmuff type hearing protector with electrical
audio input, FM radio and Bluetooth™ connection as defined in
EN 352-3:2002, EN 352-4:2001/A1:2005,
EN 352-6:2002 and EN 352-8:2008


MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted
MSA Sordin AB
Värnamo
Sweden

This product complies with Directive 89/686/EEC, as amended

Helsinki, 18 November 2016
Expiry date: 17 November 2021



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S039 (EN 45011)
(ISO/IEC Guide 65)

This certificate comprises 3 pages and two appendices.

Finnish Institute of Occupational Health, Notified Body No. 0403,
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1. Applicant

MSA Sordin AB
Rörläggarvägen 8
33151 Värnamo
Sweden

2. Description and identification of the product

Type: Earmuff type hearing protectors attached to industrial safety helmets, Björnkläder Balance AC as the basic set with adapter Type 1 and supplementary combinations as listed in Appendix 2.

Name: MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted

Description: A level dependent earmuff type hearing protector with electrical audio input, FM radio and Bluetooth™ connection as defined in EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002 and EN 352-8:2008. Black cups, black cushions and black cup supporting arms.

Size range: Medium and large

Manufacturer: MSA Sordin AB

Pictures of the product are on page 3.

3. Adequacy and validity of the technical documentation

The documentation supplied by the applicant is listed in Appendix 1. The technical documentation is considered adequate and valid. The product has been tested in accordance with harmonized European standards EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002 and EN 352-8:2008 by accredited testing methods. The model of the product supplied by the applicant conforms to the technical documentation.

4. Compliance with basic health and safety requirements

The product and the technical documentation relating to it comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC Annex II as amended, last amended by 96/58/EC (in Finland VNp 1406/93 Liite 1).

Note: Any modification in design, materials, or in the technical documentation, carried out on this type-examined product must be brought to the attention of FIOH.

Appendix 1. Documentation

Appendix 2. List of the Basic and supplementary helmet combinations



Pictures of the product:



End of EC type examination certificate.



**Technical and other documentation regarding EC type examination certificate
16468CLS01**

Product name: MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted
Applicant: MSA Sordin AB

<i>Item of documentation</i>	<i>Document identification</i>	<i>Remarks</i>
1. Application for the EC type examination	2016-09-15, Thierry Pittié	Adequate
2. Product drawing, construction, and material list	Drawings and material lists PVA00166-00, Rev.0, 2016-03-21 PVA00082-03, Rev.3, 2016-09-19 attached to application	The product and materials are identified
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.4	
3.1 FIOH assessment of relevant Directive basic requirements	2016-11-18	The applied harmonised standards EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002 and EN 352-8:2008 support the relevant requirements
3.2 FIOH test reports	Basic combination: 29413T01, 2010-01-14 29413T02, 2015-04-13	Type2 medium Dual1 fulfils the requirements of EN 352-3:2002 for size ranges S, M and L. The mechanical construction of MSA left/RIGHT Wireless World Dual, Type 2 (product A) is similar to Type2 medium Dual1 (product B) and the headband force of product A fulfils the requirements of a supplementary combination when compared to the headband force of product B. Thus it can be assessed that MSA left/RIGHT Wireless World Dual, Type 2 also fulfils the requirements of EN 352-3:2002 for size ranges S, M and L.
	333755T01, 2016-08-26 333755T03, 2016-10-19	MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted fulfils the requirements of EN 352-3:2002 for adjustability, headband force and minimum attenuation for size ranges M and L.
	Supplementary combinations: 10141T01, 2010-04-28 213444T02, 2013-01-18 322470T01, 2016-01-11	The supplementary combinations listed in Appendix 2 fulfil the requirements of EN 352-3:2002
3.2.2 Combitech test reports	CAB-16-1932-2520-207, 2016-08-10	The level-dependent feature of MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted fulfils the requirements of EN 352-4:2001/A1:2005.
	CAB-16-1932-2641-084, 2016-08-10	The audio input of MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted fulfils the requirements of EN 352-6:2002.



	CAB-16-1932-2711-742, 2016-08-10	The Bluetooth connection of MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted fulfils the requirements of EN 352-8:2008.
3.3 Draft information sheet	Draft_07_Standards_leftright, 2016-08-13 appendix to application.	Document meets the requirements of Directive 89/686/EEC, EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002 and EN 352-8:2008.
3.4 Product markings	On product	Markings meet the requirements of EN 352-3:2002
4. Description of the production quality system and related product control and test facilities	Quality Plan Left-Right WW CC, 2016-06-28	Adequate for category II products

End of documentation list.



List of the basic and supplementary helmet combinations

The basic combination for MSA left/RIGHT Wireless World Dual, Type 2 helmet-mounted is with industrial safety helmet Björnkläder Balance AC with adapter Type 1.

Supplementary combinations (S = small, M = medium, L = large):

Helmet	Adapter Type No.	Size range	Test report
MSA V-Gard	14	SML	29413T01, 2010-01-14
MSA V-Gard 200	14	ML	213444T02, 2013-01-18
MSA V-Gard 500	14	SML	29413T01, 2010-01-14
MSA V-Gard 520	14	SML	same as MSA V-Gard 500
MSA V-Gard 930 Cap	14	ML	322470T01, 2016-01-11
MSA V-Gard 950 Cap	14	ML	322470T01, 2016-01-11
Auboueix Iris 2	1, 2	SML	10141T01, 2010-04-28
Björnkläder Balance AC (basic combination)	1	ML	29413T01, 2010-01-14 333755T01, 2016-08-26
Björnkläder Balance HD	1	SML	10141T01, 2010-04-28
Peltor G2000/G2001	1	SML	10141T01, 2010-04-28
Peltor G3000/G3001	2	SML	10141T01, 2010-04-28
Protector Style 300	1	SML	10141T01, 2010-04-28
Protector Style 600	2	SML	10141T01, 2010-04-28

End of the basic and supplementary helmet combinations list.