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Type examination of explosion protection

1. Client

3M Svenska AB

2. Test object

The type examination has been performed for changed design for the previously certified headsets series WS ProTac XP of types MT15H7FWS5-50, MT15H7BWS5-50 and MT15H7P3EWS5-50.

The changes concern relocation of polarity protection on circuit board K347 in the headsets and a slightly different insulation tube on a contact.

For further details, see attached IECEx Test Report addendum SE/SP/ExTR14.0002/02.

A sample was not considered necessary for the type examination.

3. Commission

Type examination of explosion protection (intrinsic safety) according to following standards:

- EN 60079-0:2012+A11 (SS-EN 60079-0 ed. 4+A11)
- EN 60079-11:2012 (SS-EN 60079-11 ed. 2)
- EN 50303:2000 (SS-EN 50303 ed. 1)

ATEX code:  II 2G Ex ia IIC T4 Gb
 I M1 Ex ia I Ma

Ambient temperature (T_{amb}): -20 °C to +40 °C

The type examination is caused by the client's intention to have the products certified according to the ATEX Directive 94/9/EC by SP being a notified body. The requirements according to the standards above are applied to fulfil the essential health and safety requirements according to the directive.

4. Results and performance

Requirements in the standards according to "commission" above are fulfilled. Performance, results and measurement uncertainty is recorded in attachment 1. Evaluation of the changed

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design according to IEC standards in attachment 1 is considered to correspond to evaluation according to EN 60079-0+A11 and EN 60079-11 according to section 3 above.

No requirement according to EN 50303 have an influence on the evaluated changed design.

Documents according to attachment 1 are part of the type examination and the last document was received 2015-04-13.

Where not otherwise specified, the type examination is performed by Robert Carlsson during the period 2015-03-06 to 2015-04-13.

The test results are valid for the tested items only.

**SP Technical Research Institute of Sweden
Electronics - Product Safety**

Performed by

Examined by

Robert Carlsson

Anders Nilsson

Attachment

SE/SP/ExTR14.0002/02