



TEST REPORT

Test Report No.: 022077-01/01

Issued: 30. 9. 2020

Name of product: Toggle part of switch
Type of product: NT-16B2, NT-6B2, NT-6B2/P, WNT-5B2
Ratings: Flammable degree C2
Serial number: -
Manufacturer: ABEX sp. z o.o.
Sikorskiego 20, 78-400 Szczecinek,
the Republic of Poland
Production site: -
Ordering firm: ABEX sp. z o.o.
Sikorskiego 20, 78-400 Szczecinek,
the Republic of Poland
Number of tested samples: 0
Samples submitted on: 24. 9. 2020
Location of testing: Elektrotechnický zkušební ústav, s. p.
Tests performed from 29. 9. 2020 through 29. 9. 2020
Other data: -
Tested according to: ČSN 33 2312:86+Z1:05+Z1:14,
ČSN EN 60695-11-5 ed. 2:17

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Approved by: Petra Marie Tůmová
Testing laboratory technical manager

No. of pages: 3

No. of annexes: 0

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The test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
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A test was performed on the samples to determine if can be mounted in a flammable environment at flammable degree B, C1, C2.

The needle-flame test according to ČSN EN 60695-11-5 ed. 2:17 was performed according to ČSN 33 2312:85 +Z1:05+Z2:14 cl. 2.4 for confirmation of resistance to flame spreading.

The standard ČSN 33 2312:85+Z1:05+Z2:14 was replaced with a new standard ČSN 33 2312 ed.2:14. Some specifications for mounting in flammable environment were removed from new edition.

In case of suitable result according to ČSN 33 2312:85 tab. 1, the condition for mounting in a flammable environment of degree B, C1, C2 is complied (corresponding class reaction to flame B, C, D according to ČSN 33 2312 ed.2:14 tab. A.1).

Tested according to ČSN EN 60695-11-5 ed. 2:17 and ČSN 33 2312 ed.2:14

ČSN EN 60695-11-5 ed. 2:17 – Needle flame test

The test flame is applied to that part of the surface of the test specimen which is most likely to be affected by flames resulting from normal use or from fault conditions.

After withdrawing needle-flame the flames or glowing of the test specimen must extinguish within 30 seconds and no hot drips can ignite either the part under the specimen or silky paper.

The length of the flame is 12 ± 1 mm, needle-flame is applied on the test specimen for 30 seconds.

Results:

Tests were gradually performed on the specimens:

Name of part	Material	Test result	Verdict
1. Toggle part of switch	Black plastic	It smoked after the application of the flame, melted, it burnt 5 s after removal of the needle burner, it dripped and did not ignited paper.	pass

ČSN 33 2312:85+Z1:05

According to table 1 - remark 3, if all combustive materials of a device are flame spread resistant, it is possible to mount electrical devices (to 16 A, to 400 V) into and on to combustive materials of degree B, C1, C2.

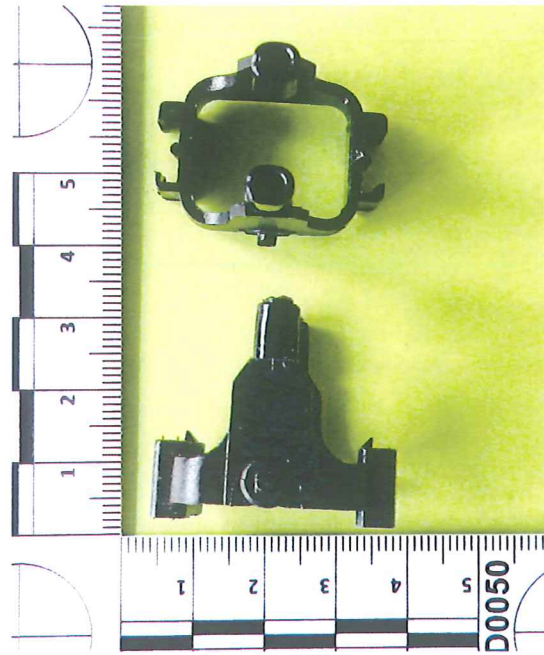
PHOTO-DOCUMENTATION:

Fig. 1.: Toggle part of switch

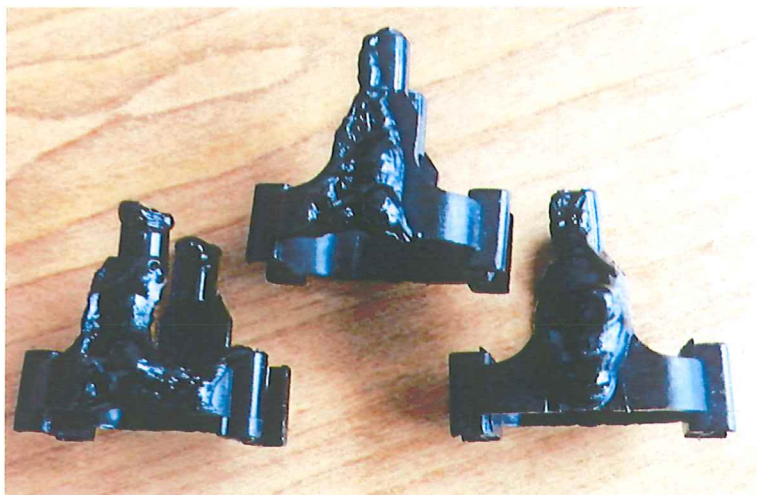


Fig. 2.: Toggle part of switch after needle-flame test

MEASURING INSTRUMENTS AND EQUIPMENT:

<u>The name, type</u>	<u>evidence number</u>
Needle burner	
Stopwatch Prisma 200	551705

Tested by: Ing. František Linhart
Date: 30. 9. 2020