



OBAC



AC 099

Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment, products and protective systems intended for use in Potentially Explosive Atmospheres. Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) EU type examination certificate No: **OBAC 21 ATEX 0156X, Issue 0**

(4) Equipment: **Temperature switch type BTS**

(5) Manufacturer: **MM GROUP, s.r.o.**

(6) Address: **Podolkovicka 1437/21, 735 64 Havirov, CZ**

(7) This equipment, product or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 17 and Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment, product or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results and the list of agreed technical documentation are recorded in the confidential Report no. OBAC/21/ATEX/0156.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-11:2012

EN 50303:2000

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment, product or protective system is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified equipment, product or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment, product or protective system. These are not covered by this certificate.

(12) The marking of the equipment, product or protective system shall include the following:



I M1 Ex ia I Ma



II 1G Ex ia IIB T6...T3 Ga

or



II 1/2G Ex ia IIC T6...T3 Ga/Gb

} **BTS K version**



**Certification Body
Manager**

Piotr Tarnawski M. Com

Gliwice, 10th of September 2021



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(13)

SCHEDULE

(14)

to the EU-Type Examination Certificate
No. OBAC 21 ATEX 0156, Issue 0



II 1G Ex ia IIC T6...T3 Ga other versions



II 1D Ex ia IIIC T125°C Da

(15) Ex Product description:

The BTS temperature switch consists of a bimetallic temperature sensor placed in a metal casing filled with polyurethane sealing compound. The switch, depending on the version, is equipped with a permanently connected cable, connector or terminals.

Marking:

Temperature switch type **BTS** / * / * / * / * / *

temperature in °C _____

pin length in mm _____

thread _____

external connection: _____

C, LT, P – permanently connected cable
K – connector
H – terminals

Ex – explosion-proof _____

Rated data:

switching capacity	250V; 1,6A / 50Hz
Temperature range	50°C - 150°C
Protection degree	IP65
Minimum ambient temperature	-20°C

Maximum ambient and medium temperature / temperature class or max. surface temperature		
Group I	Group II (gases)	Group III (dusts)
145°C	75°C / T6	125°C / T125°C
	90°C / T5	
	125°C / T4	
	150°C / T3	





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Parameters related to intrinsic safety:

Cable, connector or terminals: (+Ucc) – (-Ucc)

$U_i = 17V$

$I_i = 25mA$

$P_i = 200mW$

L_i, C_i – negligible

(16) Report:

– OBAC/21/ATEX/0156

(17) Specific conditions of use:

- Temperature class and max. surface temperature depend on the max. ambient/medium temperature - see ratings.
- In BTS K and BTS H switches as category 1D devices, the intrinsically safe circuit is treated as earthed.

(18) Essential health and safety requirements:

Met by compliance with the requirements mentioned in item 9.

