

EC – TYPE EXAMINATION CERTIFICATE

[1]

[2] Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC[3] EC-Type Examination Certificate Number: **EXA 14 ATEX 0029** Issue: **1**[4] Equipment or Protective System: **Control unit**
Type: **SKX 16/...; SKX 18/...; SKX 20/...**[5] Manufacturer: **TEPEX Ltd**[6] Address: **Medarska 69, 10090 Zagreb, Croatia**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] Ex-Agencija, Notified Body number 2465 according to Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential report number: **EXA 14CR028**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 / A11:2013**EN 60079-1:2007****EN 60079-7:2007****EN 60079-11:2012****EN 60079-18:2009****EN 60079-31:2009**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type Examination Certificate relates only to the design, examination and test of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

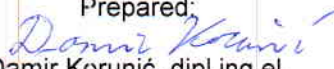
**II 2G Ex d e ia/ib mb IIC T4-T6 Gb****II 2D Ex tb IIIC T 80°C Db**

Date: 01.12.2014




PB.14.TC.258/DK

Prepared:


Damir Korunić, dipl.ing.el.**Ex-Agencija**

Department of equipment certification

Approved:


Stipo Đerek, dipl.ing.el.

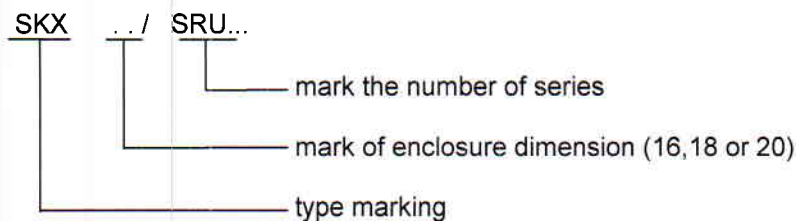
[13]

SCHEDULE

 [14] **EC - TYPE EXAMINATION CERTIFICATE No.: EXA 14 ATEX 0029**
[15] Description of Equipment or Protective System

Control units are intended for individual use or for connectoin in the blocks. Consist of a enclosure type MMK16/.., MMK18/.., , MMK20/.. (certificate EXA 13 ATEX 0054U) and separate certified equipment such as measuring and control devices, switches, pushbuttons, indicator lamps, switches and terminals intrinsically safe and non-intrinsically safe circuits. Connecting elements of intrinsically safe circuits are marked in blue color.

Marking:



RATED DATA:	
Nominal isolation voltage U_i	up to 690 V
Nominal voltage U_{e_i}	up to 690 V (depends on equipment fitted)
Nominal current I_{th}	up to 80 A
Ambient temperature	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ or $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$
IP protection	IP 66, category 1

Temperature class depends on nominal current I_{th} , terminal conductor cross section and ambient temperature T_a .

Nominal current I_{th} / terminal conductor cross section	Ambient temperature	
	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$
up to 16 A / $\geq 2,5 \text{ mm}^2$	T6	T6
up to 25 A / $\geq 4 \text{ mm}^2$	T6	T5
up to 35 A / $\geq 6 \text{ mm}^2$	T5	T4
up to 50 A / $\geq 10 \text{ mm}^2$	T5	T4
up to 63 A / $\geq 25 \text{ mm}^2$	T4	T4
up to 80 A / $\geq 35 \text{ mm}^2$	T4	T4

Mark of protection for dust is II 2D Ex tb IIIC T 80°C Db for $T_a = -20^{\circ}\text{C}$ to $+50^{\circ}\text{C}$.

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, etc.

The composition of the protection symbol is based on the types of protection of components actually used.

[15.1] Documentation

Title:	Drawing No.:	Rev. level:	Date:
Technical description of control units type SKX 16/..., SKX 18/..., SKX 20/..	-	-	31.10.2014
Instructions for use of control units type SKX 16, SKX 18, SKX 20	TEPEX.RS.030	01	10.2014

[16] Confidential Report No. EXA 14CR028**[16.1] Routine testing**

The manufacturer shall carry out the following routine test:

- Dielectric strength test according to standard EN 60079-7 cl. 7.1, with test voltage applied:
 - a) $(2U_n+1000)$ V but not less than 1500 V for at least 60 s or
 - b) 1,2 times test voltage defined in paragraph a) for a period at least 100 ms.

[17] Specific Conditions for Safe Use 'X'

None.

[18] Essential Health and Safety Requirements

Covered by the standards listed at item 9.

