

**CUSTOMS UNION
CERTIFICATE OF CONFORMITY**

EAC

No. TC RU C-US.ГБ08.B.00788
Series RU No. **0239791**

CERTIFICATION BODY FOR EXPLOSION-PROOF EQUIPMENT CJSC TEST CENTER FOR TECHNICAL MEASUREMENTS, SAFETY AND RESEARCH (EPECC TIBER CJSC), Accreditation Certificate No. ROSS RU.0001.11ГБ08 valid from 06/15/2011 to 06/15/2016, issued by the Federal Agency on Technical Regulation and Metrology. Address: 75 Friedrich Engels St., Bldg. 11, Office 204, Moscow, 105082, Russia (legal address); 1 Gornospasatel'naya St., Bldg. A, Donskoy, Tula Oblast, 301760, Russia (physical address). Tel./Fax: (48746) 5-59-53, e-mail: pmv@tiber.ru , http://www.tiber.ru

APPLICANT Emerson Limited Liability Company. PSRN 1027739864943.
Address: 10 Letnikovskaya St., Bldg. 2, Moscow, 115114, Russia.
Phone: +74959819811, fax: +74959819810

MANUFACTURER TopWorx Incorporated
3300 Fern Valley Road, Louisville, Kentucky 40213, USA
Phone: +1 5029698000, fax: +1 5029695911.

PRODUCT

Switches Series 10/20 GO
Serial production.

FOREIGN ECONOMIC ACTIVITY COMMODITY NOMENCLATURE OF THE CUSTOMS UNION CODE 8536 50 190 0

CONFORMS TO REQUIREMENTS Of the Technical Regulations of the Customs Union
“On safety of equipment intended for use in explosive atmospheres” (TR TC 012/2011)

CERTIFICATE IS ISSUED ON THE BASIS OF Test Report No. 744/844-Ex dated 12/29/2014, by EPETL TIBER CJSC, Registration No. ROSS RU.0001.21ГБ08 dated 06/15/2011.
Address: 1 Gornospasatel'naya St., Bldg. A, Donskoy, Tula Oblast, 301760, Russia;
Report No. 546/ASP on the analysis of the manufacturer’s production status, dated 08/05/2014.

ADDITIONAL INFORMATION Conformance evaluation (validation) scheme – 1c
Certificate is only valid if accompanied by the Appendix (Form No. 0195407, 0195408)

VALID FROM 02/17/2015 **TO** 02/16/2020 **BOTH DATES INCLUSIVE**

**Head (Authorized person) of
the Certification Body**

[Signature]
signature
(Deputy Head)

D.S. Podsevalov
(initials, last name)

[Stamp:] For Certificates
EPECC TIBER CJSC,
ROSS RU.0001.11ГБ08
[illegible]

**Expert (expert auditor)
(Experts (expert auditors))**

[Signature]
signature

M.V. Ponomarev
(initials, last name)

[Stamp Here]

CUSTOMS UNION

APPENDIX

TO CERTIFICATE OF CONFORMITY No. TC RU C-US.ГБ08.B.00788

Series RU No. **0195407**

Information on National Standards (codes of practice) used on a voluntary basis to meet the requirements of technical regulations

Designation of National Standard or Code of Practice	Name of National Standard or Code of Practice	Attestation of conformity to the requirements of National Standard or Code of Practice
GOST R IEC 60079-0-2011	Explosive atmospheres. Part 0. Equipment. General requirements	Standard in general
GOST IEC 60079-1-2011	Explosive atmospheres. Part 1. Equipment protection by flameproof enclosures “d”	Standard in general
GOST R IEC 60079-7-2012	Explosive atmospheres. Part 7. Equipment. Protection by increased safety “e”	Standard in general
GOST R IEC 60079-31-2010	Explosive atmospheres. Part 31. Equipment dust ignition protection by enclosure “t”	Standard in general

[Stamp:] For Certificates
OS VO ZAO TIBR,
ROSS RU.0001.11ГБ08
[illegible]
[Stamp here]

**Head (Authorized person) of
the Certification Body**

**Expert (expert auditor)
(Experts (expert auditors))**

[Signature]
signature
(Deputy Head)

[Signature]
signature

D.S. Podsevalov
(initials, last name)

M.V. Ponomarev
(initials, last name)

CUSTOMS UNION APPENDIX

TO CERTIFICATE OF CONFORMITY No. TC RU C-US.ГБ08.B.00788

Series RU No. **0195408**

1. Purpose and scope of application.

Switches Series 10/20 GO (hereinafter the switches) are designed for operational switching in the automation systems. The switches are designed for use in hazardous explosive areas in accordance with the assigned explosion-proof marking and combustible dust ignition protection.

2. Description of construction and means providing explosion protection.

The switches comprise a rectangular enclosure housing; the housing is made from stainless steel. A sealed magnetically operated switch mechanism is located in the closed housing. The terminal block (terminal) with four screw terminals is closed by a stainless steel plate with a gasket. Four stainless steel screws (8-32 x 5/16)

3. Special conditions of use (if the explosion-proofing mark includes the letter X)

3.1. External earth bonding must be achieved via the mounting fixings. These fixings must be made from stainless steel or an alternative non-ferrous metal in order to minimize both corrosion and magnetic interferences. The connection must be made in such a manner as to prevent loosening and twisting.

3.2. Only certified cable entry devices, which must be installed in accordance with GOST IEC 60079-14-2011 and must comply with the IP rating under GOST 14254 must be used. The cable entry device should not be selected bearing in mind not to impair the clearance (clearance to the terminals).

3.3. Only one single or multiple strand conductor of size 16 to 18 AWG size (from 1.3 to 0.8 mm²) must be accommodated in each terminal (terminal block). The insulation on each conductor shall extend to within 1 mm of the terminal (terminal block) clamping plate. Connection lugs are not permitted 3.4. The terminal screws must be tightened down to 0.06 Nm

4. Marking.

The marking affixed on equipment shall must include the following information:

- 1) manufacturer name or its registered trademark;
- 2) designation of equipment type;
- 3) serial number;
- 4) number of the Certificate Of Conformity;
- 5) explosion-proofing marking and combustible dust ignition protection marking

1 Ex d e IIC T6 Gb X at the ambient temperature, °C minus $40 \leq T_a \leq +60$

Ex db IIIC T85 °C Db X at the ambient temperature, °C minus $40 \leq T_a \leq +60$

- 6) special explosion-proof marking defined by TP TC 012/2011 (Appendix 2)

5. Basic technical data.

5.1. Degree of protection according to GOST 14254no less than IP64

5.2. Voltage, V (AC/DC)..... 30

5.3. Current, A 0.25

When the manufacturer makes changes, which affect the explosive safety criteria for the equipment, to the construction and (or) technical documentation validating the conformance of the equipment and (or) Ex-component to the requirements of TR TC 012/2011, the manufacturer must provide to the EPECC TIBER CJSC a description of the changes, technical documentation (drawings of means providing explosion protection) with included changes, and a sample for the additional testing if the EPECC TIBER CJCS will find that the examination of the amended technical documentation alone is not sufficient enough to make a decision on the conformity of the equipment and (or) Ex-component with the changes made to the requirements of TR TC 012/2011.

**Head (Authorized person) of
the Certification Body**

[Signature]
signature

D.S. Podsevalov
(initials, last name)

[Stamp:] For Certificates
EPECC TIBER CJSC,
ROSS RU.0001.11ГБ08
[illegible]
[Stamp Here]

**Expert (expert auditor)
(Experts (expert auditors))**

[Signature]
signature

M.V. Ponomarev
(initials, last name)