CUSTOMS UNION
CERTIFICATE OF CONFORMITY

EAC

No. TC RU C-US.ГБ08.В.00787
Series RU No. 0239790

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 Gornospasatelnaya 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

Limit switches Series 10 and 20
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. 743/843-Ex dated 12/29/2014, by EPETL TIBER CJSC, Registration No. ROSS RU.0001.21ГБ08 dated 06/15/2011.
Address: 1 Gornospasatelnaya 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. 0195405, 0195406)

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

[Stamp:] For Certificates EPECC TIBER CJSC, ROSS RU.0001.11ГБ08 [illegible] [Stamp Here]	**Head (Authorized person) of the Certification Body**	[Signature] signature (Deputy Head)	D.S. Podsevalov (initials, last name)
	Expert (expert auditor) (Experts (expert auditors))	[Signature] signature	M.V. Ponomarev (initials, last name)

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CUSTOMS UNION
APPENDIX

TO CERTIFICATE OF CONFORMITY No. TC RU C-US.ГБ08.В.00787
Series RU No. 0195405

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 R IEC 60079-11-2010	Explosive atmospheres. Part 11. Intrinsic safety circuit “I”	Entire Standard in general

[Stamp:] For Certificates EPECC TIBER CJSC, ROSS RU.0001.11ГБ08 [illegible] [Stamp Here]	**Head (Authorized person) of the certification body**	[Signature] signature (Deputy Head)	D.S. Podsevalov (initials, last name)
	Expert (expert auditor) (Experts (expert auditors))	[Signature] signature	M.V. Ponomarev (initials, last name)

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CUSTOMS UNION
APPENDIX

TO CERTIFICATE OF CONFORMITY No. TC RU C-US.ГБ08.В.00787
Series RU No. 0195406

1. Purpose and scope of application.
Limit switches Series 10 and 20 (hereinafter the switches) are designed for operational switching in the automation and end-position signaling system.
The switches are designed for use in the hazardous 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 the stainless steel or lacquered brass. The switch mechanism s sealed in the top of the enclosure with the sensing magnets located below. They are integrally connected to the switch mechanism and potted in the enclosure with external connections to the switch. The switch is mounted in place using two mounting points that pass through the enclosure.
Switches Series 10 and 20 provide the same level of explosion safety (difference in the dimensions of the switch enclosure)

3. Special conditions for use (if the explosion proof marking includes the sign "X")
3.1. Both contacts within the switch must form a part of the same explosion-proof circuit.
3.2. The connection must be directly connected to the metallic enclosure. The explosion-proof circuit may be grounded at one point only. When using grounding, safety must be fully considered, e.g., by use of a galvanically isolated interface.
3.3. The switches must be connected to an intrinsically safe (certified) power source.
3.4. The flying leads must be terminated in a suitable manner.
3.5. The terminal block variants fitted with a non-metallic cover that constitutes potential electrostatic hazard must only be cleaned with a damp cloth.

4. Marking.
The marking affixed on equipment 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 proof marking and combustible dust ignition protection marking
6) special Explosion Safety Mark specified by TR TC 012/2011 (Appendix 2).

5. Basic technical data.
5.1. Degree of protection according to GOST 14254 .....not less than IP64
5.2. Intrinsic safety parameters for connection
Ui, V 30
Ii, A.....0.25
5.3. Marking relation to ambient temperature

Explosion-proof marking and combustible dust ignition protection marking	Ambient temperature, ºC	Models
0 Ex ia IIC T6 Ga X Ex ia IIIC T85°C Db X	from minus 20 to +50	F
0 Ex ia IIC T4 Ga X Ex ia IIIC T135°C Db X	from minus 40 to +100	G
0 Ex ia IIC T3 Ga X Ex ia IIIC T200°C Db X	from minus 40 to +150	H

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.

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