

Electrical Equipment for Explosive Atmospheres

Certificate of Type Verification

Applicant	TopWorx Inc.																						
Applicant address	3300 Fern Valley Road Louisville, Kentucky 40213 United States of America	TEL	+1-502-969-8000																				
Manufacturer	1. TopWorx Inc. 2. Emerson Machinery Equipment (Shenzhen) Co. Ltd. 3. Emerson Automation Fluid Control & Pneumatics Poland Sp. z o. o. (Emerson AFCP Poland Sp. z o.o.)																						
Manufacturer address	1. 3300 Fern Valley Road Louisville, Kentucky 40213 United States of America 2. 101 Building 2, COFCO Park, Honglang North 2nd Road, Xin'an Street Bao'an District, Shenzhen 51801 China 3. Kurczaki 132 Lodz 93-331 Poland	TEL																					
Name of product Type	Switchboxes Type TXP and TXS																						
Ex marking	Ex db IIC T6...T4 Gb (Limit switch enclosure without solenoid) Ex db IIB T6...T4 Gb (Solenoid switch) Ex tb IIC T85°C...T135°C Db																						
Certificate No.	(ITRI)2021 07-00224X																						
Date of first issue	November 24, 2021																						
Date of Renewal																							
Valid period	November 24, 2021 to November 23, 2024																						
Standards:	IEC 60079-0 : 2011 IEC 60079-1 : 2014 IEC 60079-31 : 2013																						
Ratings:	Up to 250 V, 10 A, IP66/IP67																						
Ambient temperature:	-65°C~+40°C (T6) -65°C~+60°C (T5) -65°C~+80°C (T4) -50°C~+40°C (T85°C) -50°C~+60°C (T100°C) -50°C~+80°C (T135°C)																						
Main components:	Lower casting, upper casting, shaft, switch, O-ring, w/o indicator.																						
Type variants:	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>(1)</td><td>(2)</td><td>(3)</td><td>(4)</td><td>(5)</td><td>(6)</td><td>(7)</td><td>(8)</td><td>(9)</td><td>(10)</td> </tr> <tr> <td>TX</td><td>P</td><td>-</td><td>*</td><td>*</td><td>1</td><td>*</td><td>*</td><td>*</td><td>0</td> </tr> </table> <p>(1) Series : TX (2) Enclosure material : P : aluminum A360 ; S : stainless 316SS (5) Area class : 1 : IIB minimum ; C : IIC (10) Solenoid : 0/blank : not installed ; 1 : 24 Vdc ; 4 : 220 Vdc ; 7 : 410 Vac</p>			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	TX	P	-	*	*	1	*	*	*	0
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)														
TX	P	-	*	*	1	*	*	*	0														

Certificate issued by

Industrial Technology Research Institute
195 Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, 310401, Taiwan



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Certificate No.: (ITRI)2021-07-00224X

Applicant	TopWorx Inc.
Specific conditions of use:	<p>The code 1, 4, 7 in column (10) are only available with code 1 in column (5); Column (3), (4), (6), (7), (8), (9) are not related to Ex protection.</p> <p>Cable glands or blanking plugs for enclosure entries are not provided with the equipment. For safe use, certified cable glands or blanking plugs with proper type of protections shall be correctly fitted to maintain the integrity of specified protections. The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer. The hexagonal head cover screws are to be replaced only with stainless A2-70 or A4-80 screws to CNS 4234-1. Cover fasteners are to be tightened to a torque value of 10.85 Nm (8 ft/lbs) minimum.</p>
Routine tests:	The enclosure can be exempted from the routine overpressure test prescribed in IEC 60079-1 since the enclosure has been type tested in the overpressure test at 4 times the reference pressure.
Approval reference:	<p>The assessment of the above equipment is based on the review of IECEx Certificate of Conformity (IECEX SIR 06.0054X Issue 13) issued by CSA Group Testing UK Ltd (CSAE), UK and the associate test reports (GB/SIR/ExTR06.0034/00, GB/SIR/ExTR06.0196/00, GB/SIR/ExTR09.0146/00, GB/SIR/ExTR11.0263/00, GB/SIR/ExTR11.0298/00, GB/SIR/ExTR12.0117/00, GB/SIR/ExTR13.0061/00, GB/SIR/ExTR13.0334/00, GB/SIR/ExTR17.0052/00, GB/SIR/ExTR17.0171/00, GB/SIR/ExTR18.0237/00, GB/SIR/ExTR19.0053/00, GB/SIR/ExTR20.0136/00, GB/SIR/ExTR21.0088/00).</p>
Certificate history:	Issue 1 (B202100338) (2021-11-24)

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195 Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, 31057, Taiwan

