

# Electrical Equipment for Explosive Atmospheres

## Certificate of Type Verification

<b>Applicant</b>	TopWorx Inc.		
<b>Applicant address</b>	3300 Fern Valley Road Louisville, Kentucky 40213 United States of America	TEL	+1-502-969-8000
<b>Manufacturer</b>	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.) 4. ASCO Valve (Shanghai) Co., Ltd 5. Ascova! Indústria e Comércio Ltda		
<b>Manufacturer address</b>	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 4. No. 480, Xin Miao No.3 Road Xin Qiao Town, Song Jiang District Shanghai 201612 China 5. Rua Goiatuba 81 Jardim Mutinga 06465-010 Barueri - SP Brazil	TEL	
<b>Name of product Type</b>	Switchboxes Type TXP and TXS		
<b>Ex marking</b>	Ex db IIC T6...T4 Gb (Limit switch enclosure without solenoid) Ex db IIB T6...T4 Gb (Solenoid switch) Ex tb IIIC T85°C...T135°C Db		
<b>Certificate No.</b>	(IFRI)2021 第 07-00224X 號		
<b>Date of first issue</b>	November 24, 2021		
<b>Date of Renewal</b>	December 20, 2024		
<b>Valid period</b>	November 24, 2024 to November 23, 2027		
<b>Standards:</b>	IEC 60079-0 : 2017 IEC 60079-1 : 2014 IEC 60079-31 : 2013		
<b>Ratings:</b>	Up to 250 V, 10 A, IP66/IP67.		
<b>Ambient temperature:</b>	-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)		

Certificate issued by

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



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

<b>Applicant</b>	TopWorx Inc.																				
<b>Main components:</b>	Lower casing(aluminum/stainless steel), upper casing(aluminum/stainless steel), shaft, switch, O-ring, w/o indicator.																				
<b>Type variants:</b>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> <th>(5)</th> <th>(6)</th> <th>(7)</th> <th>(8)</th> <th>(9)</th> <th>(10)</th> </tr> </thead> <tbody> <tr> <td>TX</td> <td>P</td> <td>*</td> <td>*</td> <td>1</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>0</td> </tr> </tbody> </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 : 110 Vac            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>	(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												
<b>Specific conditions of use:</b>	<p>The assessment for cable entry devices is not included. For safe use, certified cable entry devices with proper type of protections shall be correctly fitted to maintain the integrity of specified protections.</p> <p>The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.</p> <p>The hexagonal head cover screws are to be replaced only with stainless A2-70 or A4-80 screws to CNS 4234-1.</p> <p>Cover fasteners are to be tightened to a torque value of 10.85 Nm (8 ft/lbs) minimum.</p> <p>Any TXP enclosure base with an ISO 228 G1/2 conduit entry shall not be used in hazardous area.</p> <p>Potential electrostatic charging hazard- Clean the enclosure only with a damp cloth.</p>																				
<b>Routine tests:</b>	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.																				
<b>Approval reference:</b>	The assessment of the above equipment is based on the review of IECEx Certificate of Conformity (IECEx SIR 06.0054X Issue 15) issued by CSA Group Testing UK Ltd (CSAE), United Kingdom 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, GB/SIR/ExTR24.0024/00, GB/SIR/ExTR24.0102/00).																				
<b>Certificate history:</b>	<table style="width: 100%;"> <tr> <td style="width: 50%;">Issue 1 (B202100338)</td> <td>(2021-11-24)</td> </tr> <tr> <td>Issue 2 (B202400413)</td> <td>(2024-12-20)</td> </tr> </table>	Issue 1 (B202100338)	(2021-11-24)	Issue 2 (B202400413)	(2024-12-20)																
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