

United Kingdom

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No .:	IECEx BAS 12.0106X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 2	lssue 1 (2015-06-09) Issue 0 (2013-01-08)
Date of Issue:	2023-09-14		
Applicant:	Topworx Incorporated 3300 Fern Valley Road Louisville Kentucky 40213 United States of America		
Equipment:	Series 10 & 20 GO Switch		
Optional accessory:			
Type of Protection:	Intrinsic Safety		
Marking:	Ex ia IIC T3/T4/T6 Ga Ex ia IIIC T ₂₀₀ 200°C / T ₂₀₀ 135°C / T ₂₀₀ 85°C	Da	
	See certificate Annex for Specific marking	s and ambient temperature ranges	
Approved for issue o Certification Body:	n behalf of the IECEx	R. S. Sinclair	
Position:		Technical Manager	
Signature: (for printed version)	RSSillini		
Date: (for printed version)	14.09.2023		
(ior printed version)			
2. This certificate is not	schedule may only be reproduced in full. Transferable and remains the property of the issuing bod enticity of this certificate may be verified by visiting www.i	y. ecex.com or use of this QR Code.	
Certificate issued	l by:		
SGS UK Limit Rockhead Busir Staden Lane Buxton, Derbys	ness Park		SGS



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Certificate No.:	IECEx BAS 12.0106X	Page 2 of 4		
Date of issue:	2023-09-14	Issue No: 2		
Manufacturer:	Topworx Incorporated 3300 Fern Valley Road Louisville Kentucky 40213 United States of America			
Manufacturing locations:	Topworx Incorporated 3300 Fern Valley Road Louisville Kentucky 40213 United States of America			
IEC Standard list b found to comply wi	elow and that the manufacturer's quality system	ative of production, was assessed and tested and found to comply with the n, relating to the Ex products covered by this certificate, was assessed and certificate is granted subject to the conditions as set out in IECEx Scheme		
STANDARDS : The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards				

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR12.0238/00

GB/BAS/ExTR15.0139/00

GB/BAS/ExTR22.0191/00

Quality Assessment Report:

GB/SIR/QAR07.0025/11



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Issue No: 2

Certificate No.:

IECEx BAS 12.0106X

Date of issue:

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2023-09-14

The Series 10 & 20 GO Switch are a range of magnetically operated switches which are actuated by the presence of an external ferrous body. The range includes a number of different switch configurations with single pole, double throw or double pole, double throw switches within a switch body.

The switches comprise a rectangular stainless steel or lacquered brass enclosure housing the switch mechanism sealed in the top of the enclosure with the sensing magnets located below. These, and the integral connections to the switch mechanism are potted in the enclosure with external connections to the switch made by a threaded entry on the side or bottom of the switch enclosure. The switch is mounted in place using two mounting points that pass through the enclosure.

The switches are rated up to 30V peak a.c. or d.c., 0.25A and may be used to switch a circuit from a certified Ex ia IIC intrinsically safe source. Both sides of each double throw switch and each pole of a double pole switch, within one proximity switch, must form part of the same intrinsically safe circuit. The switched circuit is capable of withstanding a 500V test to earth.

The Series 10 & 20 GO Switch are available with a number of different switch configurations, sensing range and external connection outlet positions, all with either screw terminals, plug and socket or integral lead external connection options. When fitted with the integral leads, the external connections must be terminated within an enclosure provided with protection suitable for the zone of installation. The only difference between the Series 10 and 20 variants is the dimensions of the switch enclosure. In terms of intrinsic safety, all variants of the Series 10 & 20 switches are identical with exception of the potting used on the 'H' high temperature variants is suitable for the higher ambient temperature.

See Certificate Annex for details of the model range, temperature classification and input parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Both contacts of the Double Throw and the separate poles of the Double Pole switch, within one switch must form part of the same intrinsically safe circuit.
- The proximity switches do not require a connection to earth for safety purposes, but an earth connection is provided which is directly connected to the metallic enclosure. Normally an intrinsically safe circuit may be earthed at one point only. If the earth connection is used, the implication of this must be fully considered in any installation, e.g. by use of a galvanically isolated interface.
- The switch must be supplied from a certified Ex ia IIC intrinsically safe source. The flying leads must be terminated in a manner suitable for the zone of installation. 4.
- The terminal block variants of the equipment are fitted with a non-metallic cover that constitutes a potential electrostatic hazard and must
- only be cleaned with a damp cloth. Prior to installation of the installer must inspect the device for damage to the applied coating that may expose the brass enclosure and
- install the device in a manner that protect or prevents impact to the enclosure of the device. Consult manufacturer should there be any damage to the applied coating exposing the brass enclosure.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Variation 2.1					
To confirm compliance to the requirements of IEC 60079-0, Edition 7.					
Variation 2.2 Updating the marking and Annex to reflect new marking requirements for EPL Da. Variation 2.3					
Introduction of new Specific Condition of Use					
Variation 2.4					
Correction of equipment lower ambient temperature range not impacting previous assessment. See Annex.					
Variation 2.5					
Updating Annex and certification to include alternative labels.					
Extr: GB/BAS/E	ExTR: GB/BAS/ExTR22.0191/00 File Reference: 21/0357				

Annex:

IECEx BAS 12.0106X Annex Issue 2.pdf

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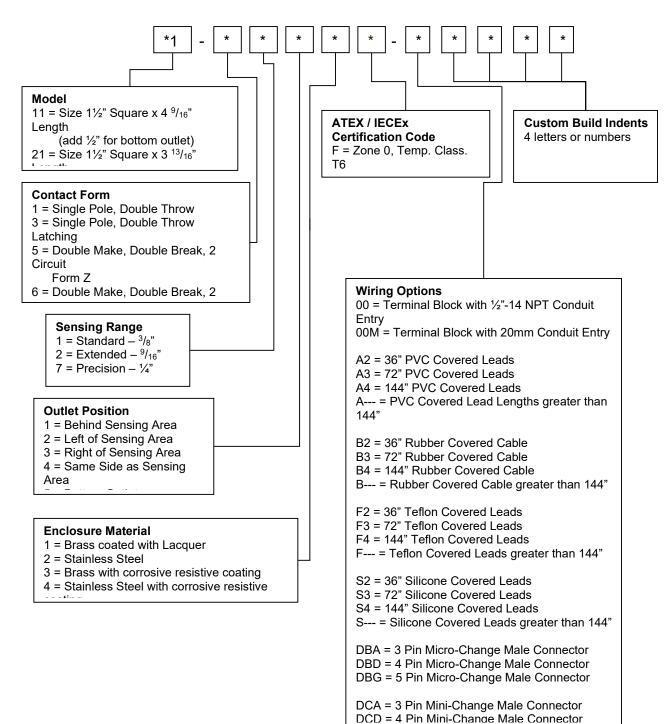
ANNEX to IECEx BAS 12.0106X

Issue No. 2

Date: 12 September 2023

Series 10 & 20 GO Switch Model Range

'F' or 'G' Model Range



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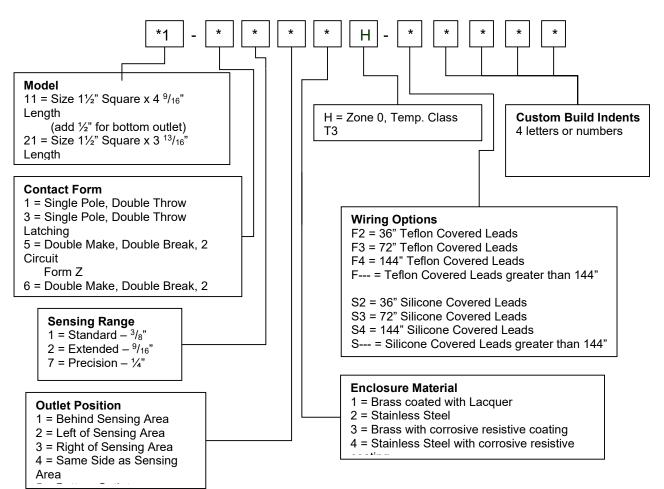
Date: 12 September 2023

Input Parameters:

Switch Variants with Wiring Options '00', 'DBA', 'DBD', 'DBG', 'DCA', DCD' & 'DCG'

Switch Variants with Wiring Options 'A*', 'B*', 'S*' & 'F*'

<u>'H' Model Range</u>



Input Parameters:

Ui	=	30V	Ci	=	33nF
li	=	0.25A	Li	=	200µH

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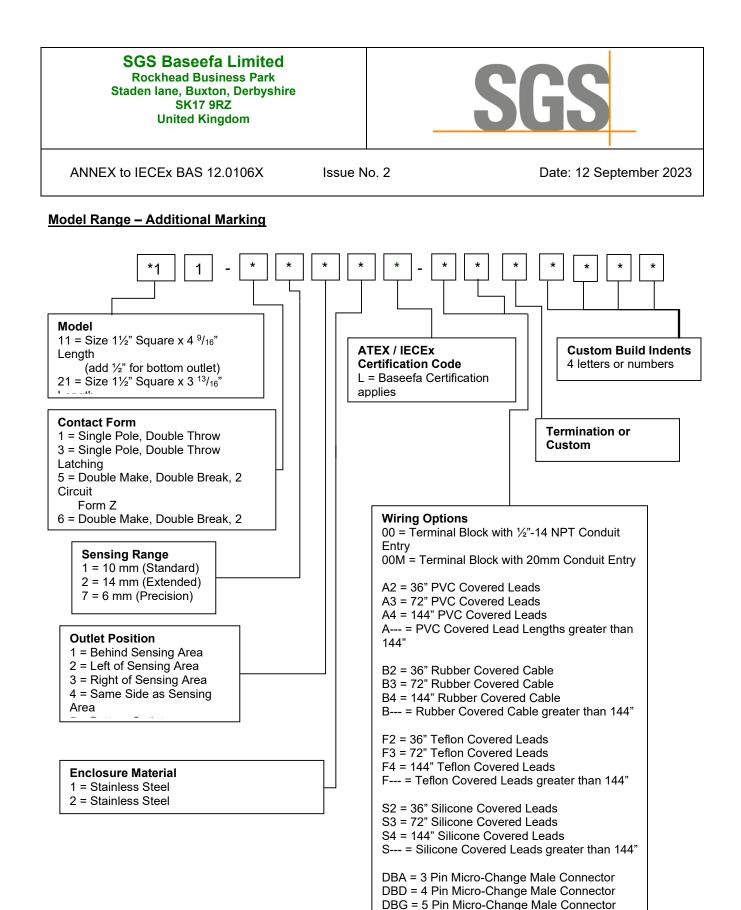
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The seventh character in the model number defines the temperature classification and associated ambient temperature range of the model. These are as follows: -

10/20 Series models with a 'F' as the	🐼 II 1 GD	Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ 50°C)
seventh character in the model number		Ex ia IIIC T ₂₀₀ 85°C Da (-40°C ≤ T _a ≤ 50°C)
10/20 Series models with a 'G' as the	🐵 II 1 GD	Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ 100°C)
seventh character in the model number	_	Ex ia IIIC T ₂₀₀ 135°C Da (-40°C ≤ T _a ≤ 100°C)
10/20 Series models with a 'H' as the	🐵 II 1 GD	Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ 150°C)
seventh character in the model number	_	Ex ia IIIC T ₂₀₀ 200°C Da (-40°C ≤ T _a ≤ 150°C)



DCA = 3 Pin Mini-Change Male Connector DCD = 4 Pin Mini-Change Male Connector

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Input Parameters:

Switch Variants with Wiring Options '00', 'DBA', 'DBD', 'DBG', 'DCA', DCD' & 'DCG'

Switch Variants with Wiring Options 'A*', 'B*', 'S*' & 'F*'

Ui	=	30V	Ci	=	33nF
li	=	0.25A	Li	=	200µH

All certification markings related to the models that carry additional marking are presented on the labels. For those carrying the additional markings the model nomenclature is not relied upon to define the certification parameters.