



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 20ATEX2003U** Issue: **0**

4 Component: **Quad Channel Digital Isolators, ISO7041, ISO7041F.**

5 Applicant: **Texas Instruments, Inc.**

6 Address: **12500 TI Blvd MS 8701  
Dallas  
Texas 75243  
USA**

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V. notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.


9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2018 EN 60079-11:2012

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

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Ex ia IIC Ga

Project Number 80029334

Signed: J A May

Title: Director of Operations

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CSA Group Netherlands B.V.  
Utrechtseweg 310, Building B42,  
6812AR, Netherlands



**SCHEDULE**

**EU-TYPE EXAMINATION CERTIFICATE**

**CSANe 20ATEX2003U  
Issue 0**

**13 DESCRIPTION OF COMPONENT**

The ISO7041 or ISO7041F is a Quad channel digital isolator. This assembly is intended to be used as an isolating component between separate intrinsically safe circuits. The four channel isolator comes in a 16-QSOP package with three forward-direction channels and one reverse direction channel. The device has default output high and low options. If the input power or signal is lost, default output is high for the ISO7041 device without the suffix F and low for the ISO7041F device with the F suffix.

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Reports and Certificate History**

Issue	Date	Report number	Comment
0	24 January 2020	R80029334A	The release of the prime certificate.

**15 SCHEDULE OF LIMITATIONS**

15.1 The components being certified to comply with EN 60079-0:2018 and EN 60079-11:2012. When one of these components is used in an equipment, the component is to be soldered on a PCB inside a suitable enclosure and re-evaluated as an equipment. The operating temperature ranges of these components are -55°C to +85°C. The creepage and clearance distances across the isolating component have been evaluated but the distance to other circuitry remains the responsibility of the user of the final equipment.

15.2 The assembly is an isolating component between separate intrinsically safe circuits. The assembly must be connected to suitably certified intrinsically safe circuits considering the following entity parameters:

Package Type	Tamb	Entity Parameters	Ui	Ii	Pi	Li	Ci
QSOP-16	-55°C ≤ Ta ≤ +70°C	Side 1	50V	300mA	1.3W	0	4pF
		Side 2	50V	300mA	1.3W	0	4pF
	-55°C ≤ Ta ≤ +85°C	Side 1	50V	300mA	1.1W	0	4pF
		Side 2	50V	300mA	1.1W	0	4pF

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

# Certificate Annexe

Certificate Number: CSANe 20ATEX2003U  
Component: Quad Channel Digital Isolators, ISO7041,  
ISO7041F.  
Applicant: Texas Instruments, Inc.

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## Issue 0

Drawing	Sheets	Rev.	Date (Stamp Date)	Title
SLLA458	1 to 11	A	22-Jan-2020	Construction and Marking Report for ATEX / IECEx Evaluation

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