

	INTERNAT IEC Certi	FIONAL ELECTR fication System rules and details of the IEC	OTECHNICAL COMMISSION for Explosive Atmospheres Ex Scheme visit www.iecex.com	
Certificate No.:	IECEx TRC 14.0005	x	Page 1 of 4	Certificate history:
Status:	Current		Issue No: 1	Issue 0 (2014-06-19)
Date of Issue:	2020-01-17			
Applicant:	Nidec Industrial Sol 8901 East Pleasant \ Independence, OH 4 United States of Am	utions /alley Road 4131 eerica		
Equipment:	Flameproof Encode	r Model M6C series		
Optional accessory	Γ.			
Type of Protection:	Flameproof, Increas	sed Safety		
Marking:	Ex d e IIB T4 Gb	T _{amb} = -40/-20°C to	o +80°C	
Approved for issue	on bobalf of the IECEV		Simon Parrowaliff	
Approved for issue on behalf of the IECEX Certification Body:				
Position:			General Manager	
Signature: (for printed version))			
Date:				
 This certificate This certificate The Status and 	and schedule may only b is not transferable and re authenticity of this certifi	e reproduced in full. mains the property of the cate may be verified by v	e issuing body. visiting www.iecex.com or use of this QR Co	ode.
Certificate issue	ed by:			
Element Mater Unit 1 Pendle I Skelmersdale West Lancash	ials Technology Place ire		e	elemenť



Certificate No.:	IECEx TRC 14.0005X	Page 2 of 4				
Date of issue:	2020-01-17	Issue No: 1				
Manufacturer:	Nidec Industrial Solutions 8901 East Pleasant Valley Road Independence, OH 44131 United States of America					
Additional manufacturing locations:						
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended						
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 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements					
IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:6						
IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e" Edition:4						
	This Certificate does not indicate compliance with safety an other than those expressly included in the Stand	d performance requirements ards 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/TRC/ExTR14.000	5/00 GB/TRC/ExTR14.0005/01					
Quality Assessment F	Report:					
US/UL/QAR12.0002/0	06					



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The M6 range of encoders are rotary speed and position transducers. The output from the units is directly proportional to shaft position (pulse count) or speed (pulse rate). The encoder is designed to be used for both control and instrumentation applications and is powered by a DC supply not exceeding 24Volts. The device consists of a cast aluminium flameproof enclosure and up to two increased safety terminal housings, separated by cemented seals. The flameproof enclosure is secured by 12 M4 x 0.7 cap screws with a tensile strength of 1220 N/mm² (property class 12.9) with a torque of 2.82 N-m.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Contact the manufacturer for information on the dimensions of the flameproof joints.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Company name change, label correction to CE mark font and replacement instructions drawing.

Annex:

Annex to IECEx TRC 14.0005X issue 1.pdf



Annex to IECEx Certificate of Conformity

IECEx TRC 14.0005X issue No.: 1

Table of entity parameters

"Special conditions for manufacture"

1. The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices and to ensure the correct instruction documents/information is provided to the end user.

Routine Tests

1. An electrical strength test of 500 V rms shall be applied between the terminals and chassis in accordance with clause 7.1 of IEC 60079-7.



Annex to IECEx Certificate of Conformity

IECEx TRC 14.0005X issue No.: 1

Manufacturer's Documents							
Title:	Drawing No.:	Rev. Level:	Date:				
M6C Explosion-Proof Pulse Encoder (3 Sheets)	D52332	В	2020-01-16				
M6C Certification Drawing User Instructions	B38053	-	2019-10-04				



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.