



NIPPON KAIJI KYOKAI

*Certificate
of
Type Test*

Certificate No.
TA26339M

FOR EXPLOSION PROTECTED TYPE ELECTRICAL EQUIPMENT

APPLICANT: GMI Japan, Kanagawa, Japan

MANUFACTURER: GM International S.p.A., Villasanta, Italy

PRODUCT: Intrinsically Safe Type Barrier for I/P Convertors

TYPE NO.: D5020S, D5020D

TYPE TEST NO.: 26T602

PARTICULARS: Refer to the attached sheet


STANDARD: IEC 60079-0, IEC 60079-11

DOCUMENTS: Refer to the attached sheet

THIS IS TO CERTIFY that the above mentioned product has been approved by the NIPPON KAIJI KYOKAI in accordance with the Society's type test requirements for electrical equipment and cables.

This certificate is valid until 1 June 2031.

Issued at Tokyo on 2 June 2026.


T. Okamoto
T. Okamoto
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

NIPPON KAIJI KYOKAI

Attached sheet to Cert No. TA26339M

Particulars:

Intrinsically safe type Ex ia IIC
 Ambient temperature range $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$

Intrinsically safe circuit

Single channel parameters	Terminals	
Channel	1	7-8
	2	9-10
Voltage U_0	DC 25.9 V	
Current I_0	93 mA	
Power P_0	595 mW	
Voltage U_i	N/A	
Current I_i	N/A	
Power P_i	N/A	
Effective internal capacitance C_i	N/A	
Effective internal inductance L_i	N/A	
Max. external capacitance C_0	100 nF	
Max. external inductance L_0	4.1 mH	
Max. inductance / resistance ratio L_0/R_0	59.7 $\mu\text{H}/\Omega$	

Non-intrinsically safe circuit

Input voltage DC 18V to 30V
 Operational voltage AC 250V 50/60Hz, DC 250V

Documents:

Ex Analysis D5020.....	CRR0100_R00
IECEX-ATEX Certification Document D5020.....	CRR0101_R01
Printed Circuit Board Transformer IS 15t+15t.....	PCF0129_R01
Printed Circuit Board D5020.....	PCF0138_R04
Parts List D5020S.....	PRL0234_R06
Parts List D5020D.....	PRL0235_R06
Electric Schematic D5020.....	SCD0115_R04
Thermal Analysis D5020.....	THA0006_R01
IECEX Certificate.....	IECEX BVS 10.0072X Issue No.8
IECEX Test Report.....	DE/BVS/ExTR10.0103/08
IECEX Test Report.....	DE/BVS/10/2215/N8
Specification.....	D5020 DTS0281_R12
Instruction Manual.....	D5020 ISM0118_R16