



NIPPON KAIJI KYOKAI

*Certificate
of
Type Test*

Certificate No.

TA26340M

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 Digital Output

TYPE NO.: D5048S

TYPE TEST NO.: 26T603

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. TA26340M

Particulars:

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

Intrinsically safe circuit

Single channel parameters	Terminals			
	1	7-10	8-10	9-10
Channel	2	N/A	N/A	N/A
Voltage U_0		DC 24.8 V	DC 24.8 V	DC 24.8 V
Current I_0		147 mA	108 mA	93 mA
Power P_0		907 mW	667 mW	571 mW
Voltage U_i		N/A	N/A	N/A
Current I_i		N/A	N/A	N/A
Power P_i		N/A	N/A	N/A
Effective internal capacitance C_i		N/A	N/A	N/A
Effective internal inductance L_i		N/A	N/A	N/A
Max. external capacitance C_0		113 nF	113 nF	113 nF
Max. external inductance L_0		1.65 mH	3.07 mH	4.19 mH
Max. inductance / resistance ratio L_0/R_0		39.2 $\mu\text{H}/\Omega$	53.3 $\mu\text{H}/\Omega$	62.3 $\mu\text{H}/\Omega$

Non-intrinsically safe circuit

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

Documents:

Ex Analysis D5048, D5049.....CRR0098_R00
 IECEx-ATEX Certification Document D5048, D5049.....CRR0099_R01
 Printed Circuit Board Transformer IS 15t+15t.....PCF0129_R01
 Printed Circuit Board D5048-D5049.....PCF0130_R03
 Parts List D5048S.....PRL0236_R04
 Electric Schematic D5048S-D5049S.....SCD0110_R02
 Thermal Analysis D5048S-D5049S.....THA0005_R02
 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.....D5048 DTS0286_R13
 Instruction Manual.....D5048 ISM0119_R17