



# NIPPON KAIJI KYOKAI

## Certificate of Type Test

Certificate No.  
TA22539M

FOR EXPLOSION PROTECTED TYPE ELECTRICAL EQUIPMENT

MANUFACTURER:	IDEC Corporation, Amagasaki Plant, Hyogo, Japan	
PRODUCT:	Intrinsically Safe Type Relay Barrier / Lamp Barrier	
TYPE NO.:	EB3C-N, EB3L-N	
TYPE TEST NO.:	22T609	
PARTICULARS:	Construction	Intrinsically safe type ([Ex ia Ga] II C & [Ex ia Da] IIIC)
	Standard	IEC60079-0 (2017), IEC60079-11 (2011)
	Intrinsically safe circuit	(16ch. common / 1ch. separate)
	Max. output voltage	13.2V / 13.2V
	Max. output current	227.2mA / 14.2mA
	Max. power	750mW / 46.9mA
	Permissible capacitance	0.49F / 0.47F
	Permissible inductance	0.60mH 87.5mH
	Non-intrinsically safe circuit	
	Permissible voltage	a.c.250V (50/60Hz), d.c.250V
	Ambient temperature	-20°C~60°C
	Other particular	Refer to attached sheet
DOCUMENTATION:	Structure drawing	A38144, A38181
	Certificate No.:	IECEX DEK 21.0070
	IECEX ExTR Ref. No.:	NL/DEK/ExTR 21.0081/00

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 27 September 2027.

Issued at Tokyo on 28 September 2022.



S. Oishi  
General Manager  
Machinery Department

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

Attached sheet to Certificate No.TA22539M

Particular:

EB3C-N:

Power supply (Terminals +, -): 24Vdc ;  $U_m = 250V$

Power supply (Terminals N, L): 100...240Vac ;  $U_m = 250V$

Single output, relay type (Terminals An, Cn): 250V ; 3A ;  $U_m = 250V$

Single output, relay type with connectors (Connectors An, Cn): 30V ; 1A ;  $U_m = 240V$

Single output, transistor type (Terminals An, Cn): 24Vdc ; 0.1A ;  $U_m = 250V$

Single input (Terminals Pn, Nn):

in type of protection intrinsic safety Ex ia IIC or IIIC,

with following maximum values for each circuit:

$U_o = 13.2V$  ;  $I_o = 14.2mA$  ;  $P_o = 46.9mW$  (linear characteristic) ;

$C_i =$  negligibly low ;  $L_i =$  negligibly low

EB3L-N:

Power supply (Terminals +, -): 24Vdc ;  $U_m = 250V$

Power supply (Terminals N, L): 100...240Vac ;  $U_m = 250V$

Single input (Terminals or Connectors Sn, Cn): 24Vdc ; 10mA ;  $U_m = 250V$

Single output (Terminals Pn, Nn):

in type of protection intrinsic safety Ex ia IIC or IIIC,

with following maximum values for each circuit:

$U_o = 13.2V$  ;  $I_o = 14.2mA$  ;  $P_o = 46.9mW$  (linear characteristic) ;

$C_i =$  negligibly low ;  $L_i =$  negligibly low

— The End —