

General Specifications

EJX-A Series and EJA-E Series Explosion Protected Type and Marine Certificate Type



GS 01C25A20-01EN

■ Outline

In this General Specifications, EJX-A Series and EJA-E Series optional specifications for some explosion protected types and marine certificate types are stated. For standard specifications, functions, and other optional specifications, please refer to the standard General Specifications of each model.

■ Model

EJX□□□A and EJA□□□E

■ Explosion Protected Type

Item	Description	Code
NEPSI	NEPSI Flameproof and Dust ignition Proof Approval *1*9 Applicable Standard: GB3836.1-2010, GB3836.2-2010, GB12476.1-2013, GB12476.5-2013 Ex d IIC T4 ~ T6 Gb, Ex tD A21 IP66/IP67 T85°C Process Temp.(Tp) for gas-proof: T4; -50 to 120°C (-58 to 248°F), T5; -50 to 100°C (-58 to 212°F), T6; -50 to 85°C (-58 to 185°F) Ambient Temp.(Tamb) for gas-proof: T4; -50 to 75°C (-58 to 167°F), T5; -50 to 80°C (-58 to 176°F), T6; -50 to 75°C (-58 to 167°F) Max. surface Temp. for dust-proof: T85°C (Tamb: -30 to 75°C, Tp: -30 to 85°C) *7 Enclosure: IP66 / IP67	NF21
	NEPSI Intrinsic safety Approval for HART/BRAIN Protocol Type *1*2*3*4 Applicable Standard: GB3836.1-2010, GB3836.4-2010, GB3836.20-2010 Ex ia IIC T4 Ga Ambient Temp.: -50 to 60°C (-58 to 140°F) Max. Process Temp.: 120°C (248°F) Electrical Parameters: Ui=30 V, li=200 mA, Pi=0.9 W, Ci=27.6 nF, Li=0 μH	NS21
	NEPSI Intrinsic safety Approval for Fieldbus Type *1*3*4*5 Applicable Standard: GB3836.1-2010, GB3836.4-2010, GB3836.19-2010, GB3836.20-2010 Ex ia IIC/IIB T4 Ga Ambient Temp.: -40 to 60°C (-40 to 140°F) Max. Process Temp.: 120°C (248°F) Electrical parameters: [Entity] Ui = 24 V, li= 250 mA, Pi = 1.2 W, Ci = 3.52 nF, Li = 0 μH [FISCO IIC] Ui = 17.5 V, li = 380 mA, Pi = 5.32 W, Ci = 3.52 nF, Li = 0 μH [FISCO IIB] Ui = 17.5 V, li = 460 mA, Pi = 5.32 W, Ci = 3.52 nF, Li = 0 μH	NS25
	NEPSI Intrinsic safety for Digital Remote Sensor *1*3*4*6*8 Applicable Standard: GB3836.1-2010, GB3836.4-2010, GB3836.20-2010 Ex ia IIC T4 Ga Ambient Temp. : -50 to 60°C (-58 to 140°F) Max. Process Temp.: 120°C (248°F) Enclosure: IP66/IP67 in accordance with GB 4208 Electrical Parameters [EJX****-P] Supply/Output Circuit (Terminal: + and -) Ui: 30 V, li: 200 mA, Pi: 0.9 W, Ci: 27.6 nF, Li: 0 mH Communication Circuit (Connector) Uo: 8.2 V, Io: 160 mA, Po: 0.3 W, Co: 7.6 μF, Lo: 1 mH [EJX****-S] Ui: 8.2 V, li: 200 mA, Pi: 0.4 W, Ci: 6 μF, Li: 0 mH	NS24

Item	Description	Code
Korea	Korea Flameproof Approval ^{*1*9} Applicable Standard: Notice of Ministry of Labor No. 2016-54, Harmonized with EN 60079-0: 2012+A11:2013, EN 60079-1:2014 Ex d IIC T6...T4 Amb. Temp. (Tamb): T4; -50 to 75°C, T5; -50 to 80°C, T6; -50 to 75°C Process Temp.(Tp): T4; -50 to 120°C, T5; -50 to 100°C, T6; -50 to 85°C	PF22
	Korea Flameproof and Dust Ignition Proof approval ^{*1*2*5*9} Applicable Standard: Ministry of Labor Notice 2019-15, Harmonized with EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014 Type of Protection and Marking Code: Ex d IIC T6...T4, Ex tD A21 IP66/IP67 T85°C Temperature Class for gas-proof: T6, T5, and T4 Ambient Temperature (Tamb) ^{*7} for gas-proof: -50 to 75°C (T6), -50 to 80°C (T5), and -50 to 75°C (T4) Maximum Process Temperature (Tp.) for gas-proof: 85°C (T6), 100°C (T5), and 120°C (T4) Maximum Surface Temperature for dust-proof: T85°C (Tamb.: -30 to 75°C, Tp.: -30 to 85°C) ^{*7} Degree of Protection of Enclosure: IP66 / IP67	PF23
	Korea Intrinsically safe Approval ^{*1*2*3*4} Applicable Standard: Notice of Ministry of Labor No. 2010-36, EN 60079-0:2009, EN 60079-11:2012 Ex ia IIC T4 Ambient Temp.: -50 to 60°C Maximum Process Temp.: 120°C Electrical data: Ui=30 V, Ii=200 mA, Pi=0.9 W, Ci=27.6 nF, Li=0 μH	PS21
INMETRO	INMETRO Flameproof Approval ^{*1*9} Applicable Standard: ABNT NBR IEC 60079-0:2013 Versão Corrigida 2:2016, ABNT NBR IEC 60079-1:2016 Ex db IIC T6...T4 Gb Amb. Temp. (Tamb): T4; -50 to 75°C (-58 to 167°F), T5; -50 to 80°C (-58 to 176°F), T6; -50 to 75°C (-58 to 167°F) Process Temp.(Tp): T4; -50 to 120°C (-58 to 248°F), T5; -50 to 100°C (-58 to 212°F), T6; -50 to 85°C (-58 to 185°F)	UF1
	INMETRO Intrinsically safe Approval ^{*1*2*3*4} Applicable Standard: ABNT NBR IEC 60079-0;2013 Versão Corrigida 2: 2016, ABNT NBR IEC 60079-11;2013 Ex ia IIC T4 Ga Ambient Temp.: -50 to 60°C (-58 to 140°F) Max Process Temp.(Tp): 120°C (248°F) Electrical data: Ui=30 V, Ii=200 mA, Pi=0.9 W, Ci=27.6 nF, Li=0 μH	US1
	INMETRO Intrinsically safe Approval ^{*1*3*4*6*8} Applicable Standard: ABNT NBR IEC 60079-0;2013 Versão Corrigida 2: 2016, ABNT NBR IEC 60079-11;2013 Ex ia IIC T4 Ga Ambient Temp.: -50 to 60°C (-58 to 140°F) Max Process Temp.(Tp): 120°C (248°F) Electrical Parameters [EJX****-P] Supply/Output Circuit (Terminal: + and -) Ui: 30 V, Ii: 200 mA, Pi: 0.9 W, Ci: 27.6 nF, Li: 0 mH Communication Circuit (Connector) Uo: 8.2 V, Io: 160 mA, Po: 0.3 W, Co: 7.6 μF, Lo: 1 mH [EJX****-S] Ui: 8.2 V, Ii: 200 mA, Pi: 0.4 W, Ci: 6 μF, Li: 0 mH	US24

- *1: Applicable for electrical connection code 2, 4, 7, 9, C, and D.
- *2: Applicable for output signal code D, E, and J (E is only for EJX-A series).
- *3: Not applicable for option code /AL (/AL is only for EJX-A series).
- *4: Not applicable for EJX910A and EJX930A.
- *5: Applicable for output signal code F and G.
- *6: Applicable for output signal code P and S.
- *7: Lower limit of Ambient temperature (Tamb) is -15°C (5°F) when /HE is specified.
- *8: Not applicable for SIL certification.
- *9: For EJX910A and EJX930A, see table 1 below to confirm whether the cable glands are attached or not.
 For EJXC40A cable glands are not attached for this option.
 In the case where the cable glands are not attached, prepare the certified cable gland applicable to the cable of ø8.5 mm diameter. To insert the cable into cable gland from the connector's side, inner diameter of the cable gland must be larger than ø13 mm.

Table 1. Attached Cable Glands for EJX910A and EJX930A

		Flameproof Approval	Intrinsically Safe Approval	General Application (Without Ex-proof Approval)
		NEPSI, Korea, INMETRO	NEPSI, Korea, INMETRO	
External Temperature Input Code	-0	No	N/A	No
	-1, -2, -3, -4	No		Yes
	-B, -C, -D	No		No

Yes: Attached No: Not attached N/A: Not applicable

■ Marine Certificate Type

Item	Description	Code
Marine Certificate	American Bureau of Shipping Type Approval ^{*1*3} Certificate No.: 14-YO1127376-PDA	WCA
	Bureau Veritas Type Approval ^{*1*3} Certificate No.: 42655/A0 BV	WCB
	Det Norske Veritas Type Approval ^{*1*3} Certificate No.: A-13669	WCD
	Lloyd's Register of Shipping Type Approval ^{*1*2*3} Certificate No.: 10/10003(E1)	WCL
	Nippon Kaiji Kyokai (NK) Type Approval ^{*1*3} Certificate No.: TA16062M	WCN

- *1: Applicable for output signal code D, E, and J (E is only for EJX-A series).
- *2: Not applicable for measurement range 70 MPa (EJX6□0A D range and EJA5□0E /HG).
- *3: Applicable only for process connection code 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 or A, for those models which have a definition of "process connection" in their suffix code structure.
Not applicable for a diaphragm seal system (EJXC40A, EJXC50A, EJAC50E, EJXC80A or EJAC80E)