

## Declaration of conformity

### Simple apparatus for explosion-proof equipment

**Product description:** Pilot lights, Illuminated switches

**Manufacturer and Address:**

IDEC CORPORATION

2-6-64 Nishimiyahara, Yodogawa-Ku, Osaka 532-0004 Japan

**This declaration of conformity is issued under the sole responsibility of the manufacturer.**

**Products covered by this declaration:** EB3P Series

Part number: Details are in the appendix

**The products listed in the Appendix have been confirmed to comply with the "Simple apparatus" requirements of the following standards. This product can be used in intrinsically safe circuits in hazardous areas as described in the next section and is classified to temperature classes T4 or T6.**

IEC 60079-0:2017

IEC 60079-11:2023

EN IEC 60079-0:2018

EN 60079-11:2012

GB/T 3836.1:2021

GB/T 3836.4:2021

FM Class 3600:2022

FM Class 3610:2021

ANSI/UL 60079-0:2020

ANSI/UL 60079-11:2014

UL 60079-0:7th Ed

UL 60079-11:6th Ed

CSA C22.2 No.60079-0:19

CAN/CSA C22.2 No.60079-11:14

**Intrinsically safe ratings and parameters:**

Ambient temperature : -20 to +60°C

Installation location : Hazardous area (Zone0, Zone1, Zone2)

Ex category and group : Ex ia II C T6 Ga (Separated wiring)

: Ex ia II C T4 Ga (Common wiring)

Maximum input voltage :  $U_i=13.2V$

Maximum input current :  $I_i=14.2mA$  (Common wiring parameter :  $(14.2 \times n)mA$ )

Maximum input power :  $P_i=46.9mW$  (Common wiring parameter :  $(46.9 \times n)mW$ )

Maximum internal capacitance :  $C_i=0nF$  (Common wiring parameter :  $0nF$ )

Maximum internal inductance :  $L_i=0\mu H$  (Common wiring parameter :  $0\mu H$ )

Note.  $n = 16$  max.

**It has been confirmed that the product is intrinsically safe only when used within the above parameters. Pilot lights must be connected to EB3L Lamp Barrier. Illuminated switches must be connected to EB3L Lamp Barrier and EB3C Relay Barrier.**

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**Signature:**

Yasunori Tsujioka

Manager

R & D Division

Date: 24 October, 2024

# Appendix:

## 1. Pilot Lights

Mount Hole	Series	Lens Shape	Part No.	Gas group								
				II A			II B			II C		
				Level of protection / EPL								
				ia	ib	ic	ia	ib	ic	ia	ib	ic
Ga	Gb	Gc	Ga	Gb	Gc	Ga	Gb	Gc				
φ 16	LB	Round Flush	EB3P-L-LB1P-1T01*	<p style="text-align: center;">○</p> <p style="text-align: center;">Be careful as there is a risk of ignition due to static electricity. Read EB3P instruction sheet(B-2417),EB3L Instruction sheet (B-2271) and EB3C Instruction (B-2269) sheet to make sure of correct operation.</p>								
		Square Flush	EB3P-L-LB2P-1T01*									
		Dome	EB3P-L-LB1P-2T01*									
φ 22	HW	Round Flush	EB3P-LHW1-*									
		Square Flush	EB3P-LHW4-*									
		Dome	EB3P-LHW2-*									
	LW	Round Flush	EB3P-LLW1-*									
		Square Flush	EB3P-LLW2-*									
		Round Flush with Square Beze	EB3P-LLW3-*									
	TW	Round Flush (Non Marking)	EB3P-LAW1-*									
		Round Flush (Marking)	EB3P-LAW1B-*									
		Dome	EB3P-LAW2-*									
φ 30	TWN TWN D	Square Flush (Marking)	EB3P-LUW2-*									
		Dome	EB3P-LAN1-*									
		Dome (Diecast Zinc)	EB3P-LAD1-*									
		Square Extended	EB3P-LUN3B-*									
		Rectangular (Marking)	EB3P-LUN4-*									

\* : Specify a color code in place of \* in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

## 2. Illuminated Push buttons

Mount Hole	Series	Buttun Shape	Operation Mode	Contact	Part No.	Gas group								
						II A			II B			II C		
						Level of protection / EPL								
						ia	ib	ic	ia	ib	ic	ia	ib	ic
Ga	Gb	Gc	Ga	Gb	Gc	Ga	Gb	Gc						
φ 16	LB	Round	Momentary	DPDT	EB3P-LB-LB1L-M1T21*	<p style="text-align: center;">○</p> <p style="text-align: center;">Be careful as there is a risk of ignition due to static electricity. Read EB3P instruction sheet(B-2417),EB3L Instruction sheet (B-2271) and EB3C Instruction (B-2269) sheet to make sure of correct operation.</p>								
			Maintained	DPDT	EB3P-LB-LB1L-A1T21*									
		Square	Momentary	DPDT	EB3P-LB-LB2L-M1T21*									
			Maintained	DPDT	EB3P-LB-LB2L-A1T21*									
φ 22	HW	Round Flush	Momentary	1NO	EB3P-LBH1W110-*									
			Maintained	1NO	EB3P-LBHA1W110-*									
	LW	Round Flush	Momentary	DPDT	EB3P-LBL1W1C2-*									
			Maintained	DPDT	EB3P-LBLA1W1C2-*									
	Square Flush	Momentary	DPDT	EB3P-LBL2W1C2-*										
		Maintained	DPDT	EB3P-LBLA2W1C2-*										
	TW	Round Extended	Momentary	1NO-1NC	EB3P-LBAW211-*									
			Maintained	1NO-1NC	EB3P-LBAOW211-*									
		ø40mm Mushroom	Pushlock Turn Reset	2NC	EB3P-LBAVW402-R									
			Pushlock Turn Reset	1NO-1NC	EB3P-LBAVW411-R									
φ 30	TWN	Round Extended	Momentary	1NO-1NC	EB3P-LBAN211-*									
			Maintained	1NO-1NC	EB3P-LBAON211-*									
		Mushroom	Pushlock Turn Reset	1NO-1NC	EB3P-LBAVN311-R									

\* : Specify a color code in place of \* in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

### 3. Illuminated Selector switches

Mount Hole	Series	Buttun Shape	Operation Mode	Contact	Part No.	Gas group								
						II A			II B			II C		
						Level of protection / EPL								
						ia	ib	ic	ia	ib	ic	ia	ib	ic
Ga	Gb	Gc	Ga	Gb	Gc	Ga	Gb	Gc						
φ 16	LB	Round	2-position	DPDT	EB3P-LS-LB1F-2T21*	<p>○</p> <p>Be careful as there is a risk of ignition due to static electricity. Read EB3P instruction sheet(B-2417),EB3L Instruction sheet (B-2271) and EB3C Instruction (B-2269) sheet to make sure of correct operation.</p>								
			3-position	DPDT	EB3P-LS-LB1F-3T21*									
		Square	2-position	DPDT	EB3P-LS-LB2F-2T21*									
			3-position	DPDT	EB3P-LS-LB2F-3T21*									
φ 22	HW	Round	2-position	1NO-1NC	EB3P-LSHW211-*									
			3-position	2NO	EB3P-LSHW320-*									
	LW	Round	2-position	DPDT	EB3P-LSL1W2C2-*									
			3-position	DPDT	EB3P-LSL3W3C2-*									
	TW	Round	2-position	Return from right	1NO-1NC		EB3P-LSAW2111-*							
				3-position	2NO		EB3P-LSAW320-*							
			3-position	Return from right	2NO		EB3P-LSAW3120-*							
				Return from left	2NO		EB3P-LSAW3220-*							
			3-position	Return Two-way	2NO	EB3P-LSAW3320-*								
				Return Two-way	2NO	EB3P-LSAW3320-*								
	φ 30	TWN	Round	2-position	1NO-1NC	EB3P-LSAN211-*								
				3-position	2NO	EB3P-LSAN320-*								

\* : Specify a color code in place of \* in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)