



Selection Guide

Discrete Input Barrier

Model	EB3C-**AN	EB3C-**DN	EB3N-**D
Appearance			
Page	246		253
Ratings	UL: Class I, II, III Div1 / Group A, B, C, D, E, F, and G Class I, Zone 0 / [AExia] II C FM: Class I, II, III Div1 / Group A, B, C, D, E, F, and G Class I, Zone 0 / [AExia] II C PTB (ATEX): II(1)G [Exia] IIC: Gas vapor II(1) D[Exia] IIC: Dust PTB (IECEX) [Exia] IIC IEC Ex: [Exia] II C CQST: [Ex ia Ga] IIC TIIS: Discrete input barrier [Exia] IIC Switch (EB9Z-A) Exia IIC T6 Switch (EB9Z-A1) Exia IIB T6 NK: [Exia] II C KCs: [Exia] II C, [Exia D] KR: [Exia] IIC, [Exia] III C (pending)		UL: Class I, II, III, Div. 1, Groups A, B, C, D, E, F and G Class I, Zone 0, [AExia] II C PTB (IECEX): [Exia] II C PTB (ATEX): II (1) G [Exia] II C II (1) D [ExiaD] CQST: [Exia] II C TIIS: [Exia] II C
Degree of Protection	IP20	IP20	IP20
Number of Channels	Relay Output: 1,2,3,5,6,8,10 Transistor Output: 1,2,3,5,6,8,10,16	Relay Output: 1,2,3,5,6,8,10 Transistor Output: 1,2,3,5,6,8,10,16	EB3N-□2ND: 2 safety circuits EB3N-□2R5D: 2 safety circuits, 5 auxiliary circuits
Power Voltage	100 to 240V AC (UL rating: 100- 120VAC)	24V DC	24V DC
Output	Relay Transistor (Sink/Source)	Relay Transistor (Sink/Source)	Relay
Connection	Screw Terminal	Screw Terminal, Connector	Screw Terminal
Mounting	35-mm-wide DIN rail Panel mounting	35-mm-wide DIN rail Panel mounting	35-mm-wide DIN rail / Panel mounting
Size (excluding projections)	42W×75H×77.5D (1 channel) 65W×75H×77.5D (2, 3 channels) 110.5W×75H×77.5D (5, 6, 8 channels (common)) 171.5W×75H×77.5D (8, 10 channels)	42W×75H×77.5D (1 channel) 65W×75H×77.5D (2, 3 channels) 110.5W×75H×77.5D (5, 6, 8 channels (common)) 171.5W×75H×77.5D (8, 10, 16 channels (common))	65.0W×75.0H×77.5D (EB3N-□2ND) 110.5W×75.0H×77.5D (EB3N-□2R5D)
Weight (approx.)	380g (EB3C-R10AN)	390g (EB3C-R16CDN)	220g (EB3N-□2ND) 300g (EB3N-□2R5D)

OI Touchscreens

PLCs

Automation Software


Power Supplies

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Barriers

Discrete Output Barrier

Model	EB3L-**-AN	EB3L-**-DN
Appearance		
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Ratings	UL: Class I, II, III Div1 / Group A, B, C, D, E, F, and G Class I, Zone 0 / [AExia] II C FM: Class I, II, III Div1 / Group A, B, C, D, E, F, and G Class I, Zone 0 / [AExia] II C PTB (ATEX): II(1)G [Exia] IIC: Gas vapor II(1)D [Exia] IIIC: Dust PTB (IEC-Ex) [Exia] IIC [Exia] IIIC CQST: Ex ia Ga IEC Ex: [Exia] II C TIIS: Discrete output barrier [Exia] II C NK: [Exia] II C KCS: [Exia] II C, [Exia D] KR: [Exia] IIC, [Exia] III C (pending)	
Degree of Protection	IP20	IP20
Number of Channels	1, 2, 3, 5, 6, 8, 10	1, 2, 3, 5, 6, 8, 10, 16
Power Voltage	100 to 240V AC (UL rating: 100 ~ 120V AC)	24V DC
Input	Transistor input (sink) Transistor input (source)	Transistor input (sink) Transistor input (source)
Connection	Screw Terminal	Screw Terminal, Connector
Mounting	35-mm-wide DIN rail Panel mounting	35-mm-wide DIN rail Panel mounting
Size (excluding projections)	42W×75H×77.5D (1 channel) 65W×75H×77.5D (2, 3 channels) 110.5W×75H×77.5D (5, 6, 8 channels) 171.5W×75H×77.5D (8, 10 channels)	42W×75H×77.5D (1 channel) 65W×75H×77.5D (2, 3 channels) 110.5W×75H×77.5D (5, 6, 8 channels) 171.5W×75H×77.5D (8, 10, 16 channels (common))
Weight (approx.)	360g (EB3L-S10SAN)	360g (EB3L-S16CSDN)

Switches and Pilot Lights



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Pilot Light and Miniature Pilot Light
 IP65 (IEC60529) (except for terminals)
 EB3P-LU/IPL1: IP40

Illuminated Switch
 IP65 (IEC60529) (except for terminals)
 EB3P-LSAW**.: IP54

Buzzer
 IP20 (IEC60529) (except for terminals)

OT Touchscreens

PLCs

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