



Selection Guide

Discrete Input Barrier

| Model | EB3C-**AN | EB3C-**DN | EB3N-**D |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance |  | |  |
| Page | 244 | | 254 |
| 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 (IECEX) [Exia]IIIC IEC Ex: [Exia] II C CQST: [Ex ia Ga] IIC TIIS: Discrete input barrier [Exia] IIC Switch (EB9Z-A) Exia IICT6 Switch (EB9Z-A1) Exia IIBT6 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

Sensors

Communication

Barriers

Discrete Output Barrier

| Model | EB3L-**-AN | EB3L-**-DN |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance |  | |
| Page | 259 | |
| 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

Automation Software

Power Supplies

Sensors

Communication

Barriers