



## Solutions Ex d IIB or CID1 / CIID1 based on Stainless Steel Enclosures

### EJBX\*

- Stainless Steel enclosure
- Suitable for operation in Zone 1, Zone 2, Zone 21 and Zone 22
- Suitable for operation in Class I, II Division 1
- Ex d and Ex tb certified
- Gas group IIB+H<sub>2</sub>
- Degree of protection IP66 or IP66 / IP67, NEMA Type 4X
- Various enclosure size and design variants
- Customizable configuration of operators, cable entry quantities and cable gland types as per specification
- Integration of electrical components and operating elements as per customer specification
- Choice of viewing windows for monitoring instruments

## Solutions Ex d IIB or CID1 / CIID1 based on Stainless Steel Enclosures



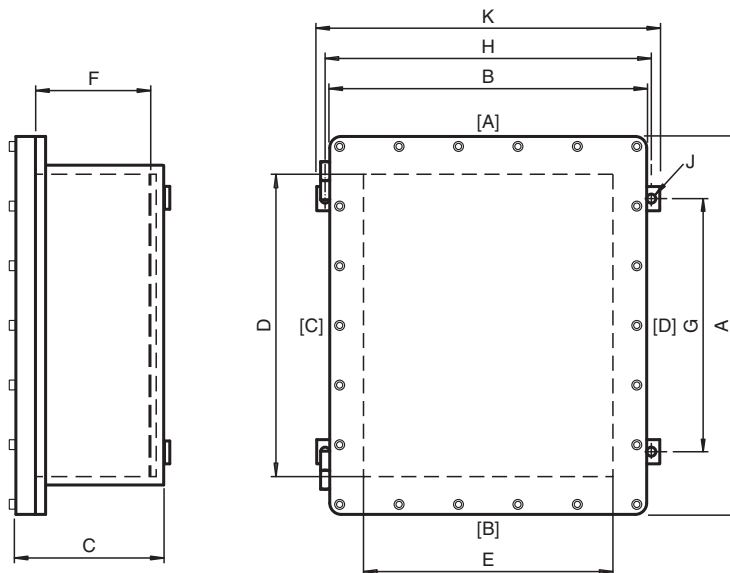
### Function

The enclosure series EJBX forms the optimal basis for the application-specific configuration of terminal boxes, control stations as well as control and distribution panels.

The enclosures are certified Ex d IIB+H<sub>2</sub> and Ex tb as well as "explosion-proof". They are available in many sizes, a wide range of operating elements and monitoring functions can be integrated. They are manufactured from high-quality stainless steel.

This durability as well as the flexible customization options cover the requirements of many industries including offshore and marine applications. A choice of windows allows viewing of integrated monitoring functions. Electrical components can be integrated as per customer specification.

### Dimensions



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Dimension values see data table.  
 Real values might differ slightly due to manufacturing tolerances.  
 Dimensions are valid for standard enclosures and IP66 variants only.  
 Image and drawing are generic for this device type and may deviate from the specific variant.

#### Dimensions and Enclosure Details - Approvals for ATEX / IECEx Europe

| Type        | External dimensions [mm] |     |     |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Mass [kg] | Cover screws |      | Max. power dissipation at T4/+40 °C [W] |
|-------------|--------------------------|-----|-----|-----|--------------------------|-----|-----|---------------|-----|----|-----------|--------------|------|---|
|             | A                        | B   | C   | K   | D                        | E   | F   | G             | H   | J  |           | Mx           | qty. |   |
| EJBX0*.U*   | 198                      | 133 | 141 | 128 | 140                      | 75  | 110 | 133           | 108 | 8  | 7         | M6           | 6    | 51                                      |
| EJBX2A*.U*  | 220                      | 220 | 155 | 226 | 160                      | 160 | 125 | 157           | 206 | 8  | 12        | M6           | 8    | 104                                     |
| EJBX3A*.U*  | 252                      | 152 | 165 | 165 | 200                      | 100 | 135 | 185           | 145 | 8  | 13        | M6           | 10   | 83                                      |
| EJBX4A*.U*  | 262                      | 222 | 180 | 226 | 200                      | 160 | 145 | 188           | 206 | 8  | 17        | M8           | 10   | 125                                     |
| EJBX6A*.U*  | 309                      | 209 | 170 | 216 | 250                      | 150 | 135 | 233           | 196 | 8  | 19        | M8           | 10   | 139                                     |
| EJBX8B*.U*  | 371                      | 271 | 232 | 270 | 300                      | 200 | 195 | 282           | 250 | 10 | 36        | M8           | 14   | 236                                     |
| EJBX10B*.U* | 450                      | 340 | 262 | 350 | 370                      | 260 | 225 | 345           | 320 | 10 | 66        | M8           | 16   | 353                                     |
| EJBX11B*.U* | 490                      | 410 | 268 | 415 | 400                      | 320 | 230 | 363           | 385 | 10 | 80        | M10          | 22   | 432                                     |
| EJBX15A*.U* | 580                      | 430 | 265 | 460 | 500                      | 350 | 220 | 462           | 430 | 12 | 96        | M10          | 20   | 540                                     |
| EJBX17A*.U* | 662                      | 492 | 363 | 494 | 570                      | 400 | 315 | 550           | 464 | 14 | 145       | M10          | 22   | 746                                     |
| EJBX17Q*.U* | 594                      | 594 | 318 | 613 | 500                      | 500 | 270 | 453           | 583 | 14 | 143       | M12          | 24   | 593                                     |
| EJBX18B*.U* | 734                      | 524 | 368 | 535 | 640                      | 430 | 320 | 590           | 505 | 14 | 167       | M12          | 24   | 864                                     |
| EJBX20A*.U* | 922                      | 672 | 437 | 670 | 800                      | 550 | 380 | 697           | 630 | 16 | 320       | M12          | 32   | 1616                                    |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
 Dimensions are valid for standard enclosures and IP66 variants only

#### Dimensions and Enclosure Details - Approvals for ATEX / IECEx Asia Pacific

| Type            | External dimensions [mm] |     |       |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Mass [kg] | Cover screws |      | Max. power dissipation at T4/+40 °C [W] |
|-----------------|--------------------------|-----|-------|-----|--------------------------|-----|-----|---------------|-----|----|-----------|--------------|------|---|
|                 | A                        | B   | C     | K   | D                        | E   | F   | G             | H   | J  |           | Mx           | qty. |   |
| EJBX0*.U*.AI*   | 198                      | 133 | 156.5 | 140 | 140                      | 75  | 110 | 133           | 120 | 9  | 12        | M6           | 6    | 51                                      |
| EJBX2A*.U*.AI*  | 220                      | 220 | 171.5 | 226 | 160                      | 160 | 125 | 157           | 206 | 9  | 21        | M6           | 8    | 104                                     |
| EJBX3A*.U*.AI*  | 252                      | 152 | 171.5 | 165 | 200                      | 100 | 135 | 185           | 145 | 8  | 18        | M6           | 10   | 83                                      |
| EJBX4A*.U*.AI*  | 262                      | 222 | 191.5 | 226 | 200                      | 160 | 145 | 188           | 206 | 9  | 25        | M8           | 10   | 125                                     |
| EJBX6A*.U*.AI*  | 309                      | 209 | 181.5 | 216 | 250                      | 150 | 135 | 233           | 196 | 9  | 28        | M8           | 10   | 139                                     |
| EJBX8B*.U*.AI*  | 371                      | 271 | 241.5 | 270 | 300                      | 200 | 195 | 282           | 250 | 11 | 46        | M8           | 14   | 236                                     |
| EJBX10B*.U*.AI* | 450                      | 340 | 271.5 | 350 | 370                      | 260 | 225 | 345           | 320 | 11 | 67        | M8           | 16   | 353                                     |
| EJBX11B*.U*.AI* | 490                      | 410 | 276.5 | 415 | 400                      | 320 | 230 | 363           | 385 | 11 | 84        | M10          | 22   | 432                                     |
| EJBX15A*.U*.AI* | 580                      | 430 | 266.5 | 460 | 500                      | 350 | 220 | 462           | 430 | 13 | 101       | M10          | 20   | 540                                     |
| EJBX17A*.U*.AI* | 662                      | 492 | 365.5 | 494 | 570                      | 400 | 315 | 550           | 464 | 15 | 149       | M10          | 22   | 746                                     |
| EJBX17Q*.U*.AI* | 594                      | 594 | 322.5 | 613 | 492                      | 492 | 270 | 453           | 583 | 15 | 177       | M12          | 24   | 593                                     |
| EJBX18B*.U*.AI* | 734                      | 524 | 372.5 | 535 | 632                      | 422 | 320 | 590           | 505 | 15 | 207       | M12          | 24   | 864                                     |
| EJBX20A*.U*.AI* | 922                      | 672 | 434.5 | 670 | 800                      | 550 | 380 | 697           | 630 | 17 | 338       | M12          | 32   | 1616                                    |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
 Dimensions are valid for standard enclosures and IP66 variants only

#### Dimensions and Enclosure Details - Approvals for North America

| Type            | External dimensions [mm] |     |       |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Mass [kg] | Cover screws |      | Max. power dissipation at T4/+40 °C [W] |
|-----------------|--------------------------|-----|-------|-----|--------------------------|-----|-----|---------------|-----|----|-----------|--------------|------|---|
|                 | A                        | B   | C     | K   | D                        | E   | F   | G             | H   | J  |           | Mx           | qty. |   |
| EJBX0*.U*.UL*   | 198                      | 133 | 156.5 | 140 | 140                      | 75  | 110 | 133           | 120 | 9  | 12        | M6           | 6    | 51                                      |
| EJBX2A*.U*.UL*  | 220                      | 220 | 171.5 | 226 | 160                      | 160 | 125 | 157           | 206 | 9  | 21        | M6           | 8    | 104                                     |
| EJBX3A*.U*.UL*  | 252                      | 152 | 171.5 | 165 | 200                      | 100 | 135 | 185           | 145 | 8  | 18        | M6           | 10   | 83                                      |
| EJBX4A*.U*.UL*  | 262                      | 222 | 191.5 | 226 | 200                      | 160 | 145 | 188           | 206 | 9  | 25        | M8           | 10   | 125                                     |
| EJBX6A*.U*.UL*  | 309                      | 209 | 181.5 | 216 | 250                      | 150 | 135 | 233           | 196 | 9  | 28        | M8           | 10   | 139                                     |
| EJBX8B*.U*.UL*  | 371                      | 271 | 241.5 | 270 | 300                      | 200 | 195 | 282           | 250 | 11 | 46        | M8           | 14   | 236                                     |
| EJBX10B*.U*.UL* | 450                      | 340 | 271.5 | 350 | 370                      | 260 | 225 | 345           | 320 | 11 | 67        | M8           | 16   | 353                                     |
| EJBX11B*.U*.UL* | 490                      | 410 | 276.5 | 415 | 400                      | 320 | 230 | 363           | 385 | 11 | 84        | M10          | 22   | 432                                     |
| EJBX15A*.U*.UL* | 580                      | 430 | 266.5 | 460 | 500                      | 350 | 220 | 462           | 430 | 13 | 101       | M10          | 20   | 540                                     |
| EJBX17Q*.U*.UL* | 594                      | 594 | 322.5 | 613 | 492                      | 492 | 270 | 453           | 583 | 15 | 177       | M12          | 24   | 593                                     |
| EJBX18B*.U*.UL* | 734                      | 524 | 372.5 | 535 | 632                      | 422 | 320 | 590           | 505 | 15 | 207       | M12          | 24   | 864                                     |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
 Dimensions are valid for standard enclosures and IP66 variants only

## Technical Data

### Electrical specifications

Operating voltage

1500 V DC / 1000 V AC max. for ATEX / IECEx  
 600 V AC / DC max. for North American approvals

## Technical Data

|  |   |
|--|---|
| Operating current  | 1600 A max.   |
| <b>Mechanical specifications</b>                               |   |
| Thread type  | metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1  |
| Enclosure cover  | detachable , optional hinges  |
| Cover fixing   | stainless steel socket cap head screws  |
| Screws   | see data table  |
| Material of screws   | stainless steel   |
| Yield stress   | min. 450 N/mm <sup>2</sup> for ATEX / IECEx , 100,000 PSI for North American approvals  |
| Cover seal   | none, O-ring for IP66/67  |
| Flamepath grease   | Greasil MS4 or NEVER SEEZ Marine Grade  |
| Degree of protection   | IP66 (IP66/67 with O-ring) , NEMA Type 4, 4X, 7, 9  |
| Cable entry  | see data table  |
| Material   |   |
| Enclosure  | AISI 316L stainless steel   |
| Glass  | thermo-resistant tempered glass   |
| Finish   | shot peened   |
| O-Ring   | silicone  |
| Mass   | see data table<br>valid for empty enclosure, will increase according to integrated components   |
| Dimensions   | see data table<br>values might differ slightly due to manufacturing tolerances<br>dimensions are valid for standard enclosures and IP66 variants only   |
| Mounting   | see data table  |
| Grounding  | M6 external grounding points  |
| <b>Ambient conditions</b>                                      |   |
| Ambient temperature  | -60 ... 60 °C (-76 ... 140 °F)<br>depending on integrated components  |
| <b>Data for application in connection with hazardous areas</b> |   |
| EU-type examination certificate                                | INERIS 14 ATEX 0022X<br>INERIS 14 ATEX 9010U  |
| Marking  | ⊕ II 2 GD<br>Ex db IIB+H <sub>2</sub> T* Gb<br>Ex tb IIIC T** °C Db<br>T6/T85 °C<br>T5/T100 °C<br>T4/T135 °C<br>T3/T200 °C<br>depending on configuration, ambient temperature and built-in power loss |
| Maximum power dissipation                                      | see data table<br>maximum power dissipation at T4/+40 °C<br>enclosure without window  |
| <b>International approvals</b>                                 |   |
| UL approval  |   |
| Approved for   | Class I, Division 1, Groups B, C, D<br>Class II, Division 1, Groups E, F, G<br>Type 4, 4X, 7, 9   |
| cULus  | Empty enclosure E482035 , UL 50E , UL 1203 , CSA C22.2, No. 25, 30  |
| cETLus   | Control panels E5003368   |
| Ambient temperature  | -25 ... 60 °C (-13 ... 140 °F)  |
| IECEx approval   | IECEx INE 14.0029X<br>IECEx INE 14.0028U  |
| UKCA approval  | CML 21 UKEX 1424X<br>CML 21 UKEX 1425U  |
| ECAS approval  | 23-10-87483/E23-09-089610   |
| CCC approval   | 2020322303002546  |
| Further approvals  | available on request  |
| <b>Conformity</b>  |   |
| Degree of protection   | EN60529 and UL 50 / UL 50E  |
| CE marking   | 0080 or 0102, see type label  |
| <b>General information</b>                                     |   |

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