

# Панели управления и распределения (Ex d IIC) из алюминия

## Технические характеристики

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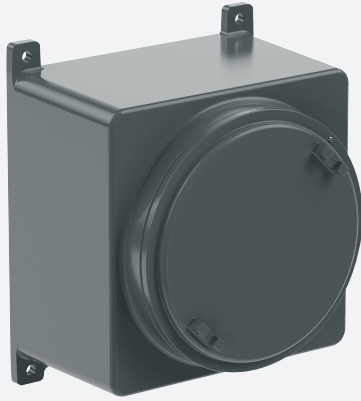
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## Solutions Ex d IIC based on GUB Enclosures, Aluminum

### GUB\*

- Aluminum alloy
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Ex d and Ex tb certified
- Gas group IIC
- Various enclosure size and design variants
- Integration of electrical components and operating elements as per customer specification
- Customizable configuration of operators, cable entry quantities and cable gland types as per specification
- Thermo-resistant tempered glass window
- Degree of protection IP66 or IP66 / IP67

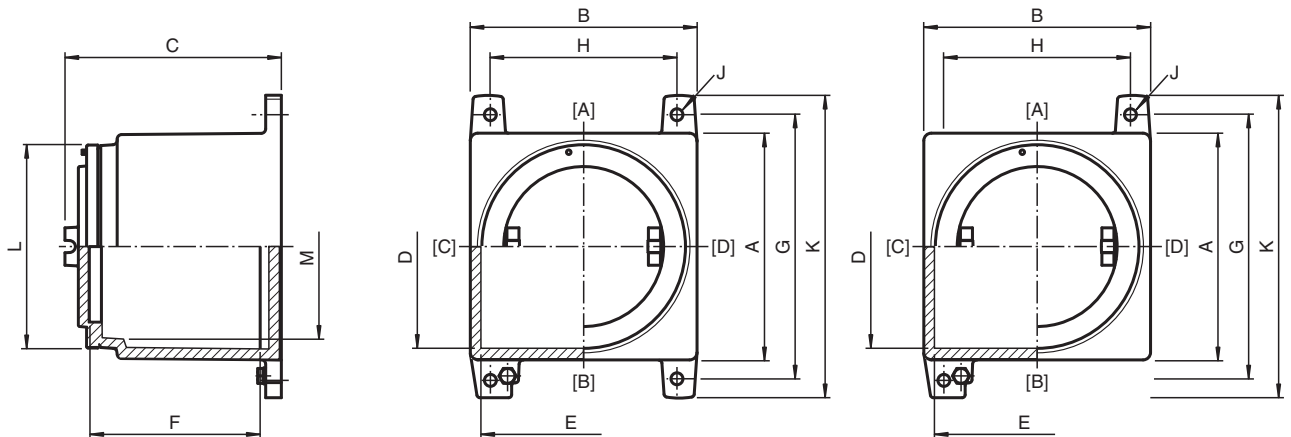


### Function

The GUB enclosures series forms the optimal basis for the application-specific configuration of terminal boxes as well as control and distribution panels. A wide range of components and control functions can be integrated in one of many size and design options of Ex d IIC and Ex tb certified flameproof enclosures. They are manufactured from copper-free aluminum.

This durability and the comprehensive enclosure sizes 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



# Dimensions

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.

| Legend      |                                                 |
|-------------|-------------------------------------------------|
| A           | Height                                          |
| B           | Width                                           |
| C           | Depth                                           |
| D           | Internal height                                 |
| E           | Internal width                                  |
| F           | Internal depth to surface mounting plate        |
| G           | Mounting holes distance, vertical               |
| H           | Mounting holes distance, horizontal             |
| J           | Mounting holes diameter                         |
| K           | Maximum external dimension of mounting brackets |
| L           | Diameter threaded cover                         |
| L           | Diameter circular window (window variants only) |
| M           | Diameter mounting aperture                      |
| [A] ... [D] | Cable entry faces                               |

# Technical Data

| Electrical specifications                               |  |                                                                                               |
|---------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|
| Operating voltage                                       |  | 1500 V DC / 1000 V AC max.                                                                    |
| Operating current                                       |  | recommended: 1600 A max.                                                                      |
| Mechanical specifications                               |  |                                                                                               |
| Thread type                                             |  | metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1                                              |
| Enclosure cover                                         |  | threaded round cover                                                                          |
| Cover fixing                                            |  | flamepath thread                                                                              |
| Cover seal                                              |  | none, O-ring for IP66/67                                                                      |
| Degree of protection                                    |  | IP66 (IP66/67 with O-ring)                                                                    |
| Cable entry                                             |  | see data table                                                                                |
| Material                                                |  |                                                                                               |
| Enclosure                                               |  | aluminum alloy                                                                                |
| Glass                                                   |  | thermo-resistant tempered glass                                                               |
| Finish                                                  |  | epoxy coated RAL 7005 (grey)                                                                  |
| 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 casting and manufacturing tolerances    |
| Mounting                                                |  | see data table                                                                                |
| Grounding                                               |  | M6 external grounding points                                                                  |
| Ambient conditions                                      |  |                                                                                               |
| Ambient temperature                                     |  | -60 ... 60 °C (-76 ... 140 °F)<br>depending on integrated components                          |
| Data for application in connection with hazardous areas |  |                                                                                               |
| EU-type examination certificate                         |  | INERIS 14 ATEX 0035X<br>INERIS 16 ATEX 9005U                                                  |

## Technical Data

|                                |                                                                                                                                                                                     |                                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Marking                        | II 2 GD<br>Ex db IIC T* Gb<br>Ex tb IIC 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                                                                                      |
| <b>International approvals</b> |                                                                                                                                                                                     |                                                                                                                                               |
| IECEX approval                 |                                                                                                                                                                                     | IECEX INE 14.0042X<br>IECEX INE 16.0051U                                                                                                      |
| UKCA approval                  |                                                                                                                                                                                     | CML 21 UKEX 21304X<br>CML 21 UKEX 2976U                                                                                                       |
| ECAS approval                  |                                                                                                                                                                                     | 22-09-51658/E22-09-051730/NB0002                                                                                                              |
| CCoE approval                  |                                                                                                                                                                                     | PESO A/P/HQ/KA/104/6018 (P558877)                                                                                                             |
| CCC approval                   |                                                                                                                                                                                     | 2023122303116246                                                                                                                              |
| Further approvals              |                                                                                                                                                                                     | available on request                                                                                                                          |
| <b>Conformity</b>              |                                                                                                                                                                                     |                                                                                                                                               |
| Degree of protection           |                                                                                                                                                                                     | EN 60529                                                                                                                                      |
| CE marking                     |                                                                                                                                                                                     | 0080 or 0102, see type label                                                                                                                  |
| <b>General information</b>     |                                                                                                                                                                                     |                                                                                                                                               |
| Ordering information           |                                                                                                                                                                                     | This solution will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service. |
| Supplementary information      |                                                                                                                                                                                     |                                                                                                                                               |

## Type Code

| 1   | 2 | 3 | 4 | 5  |   | 6 |   | 7  |   | 8     |
|-----|---|---|---|----|---|---|---|----|---|-------|
| GUB | * | * | * | ** | . | * | . | ** | - | ****  |
| GUB |   | W | E | 3  | . | D | . | CP | - | Y0001 |

Example: GUBWE3.D.CP-Y0001

Control panel GUB size 3 in aluminum, with extension and window, without intrinsically safe circuits

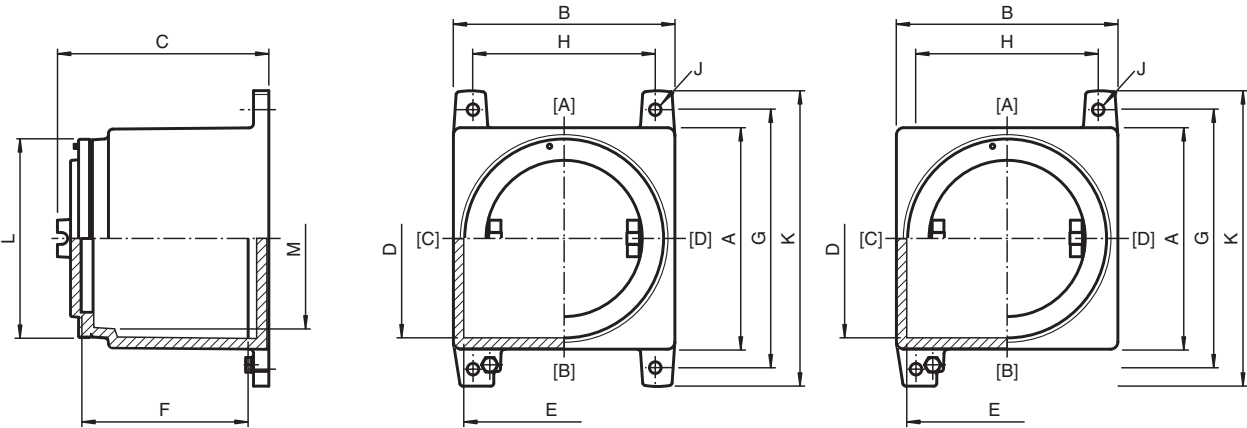
|          |                                        |
|----------|----------------------------------------|
| <b>1</b> | <b>Enclosure type</b>                  |
| GUB      | enclosure Ex d IIC                     |
| <b>2</b> | <b>Material</b>                        |
|          | copper-free aluminum                   |
| <b>3</b> | <b>Window</b>                          |
|          | no window                              |
| W        | window                                 |
| <b>4</b> | <b>Enclosure variant</b>               |
|          | standard variant                       |
| E        | variant with extension                 |
| <b>5</b> | <b>Enclosure size</b>                  |
| 00 ... 5 | see dimensions data table              |
| <b>6</b> | <b>Electrical circuits</b>             |
| D        | without intrinsically safe circuits    |
| I        | intrinsically safe circuits integrated |
| <b>7</b> | <b>Type of application</b>             |
| U        | empty enclosure                        |
| T        | terminal box                           |
| CP       | control panel                          |
| CS       | control station                        |
| DB       | distribution board                     |
| DMT      | electronic earthing system             |

Type Code

| 7   | Type of application                                  |
|-----|------------------------------------------------------|
| MS  | motor starter                                        |
| PS  | power switching                                      |
| RIO | remote I/O field unit                                |
| IFS | interface solution                                   |
| FJB | fieldbus solution                                    |
| OS  | optical solution                                     |
| Q40 | engineered solution per customer specification (Q40) |

| 8     | Variant number     |
|-------|--------------------|
| Yxxxx | consecutive number |

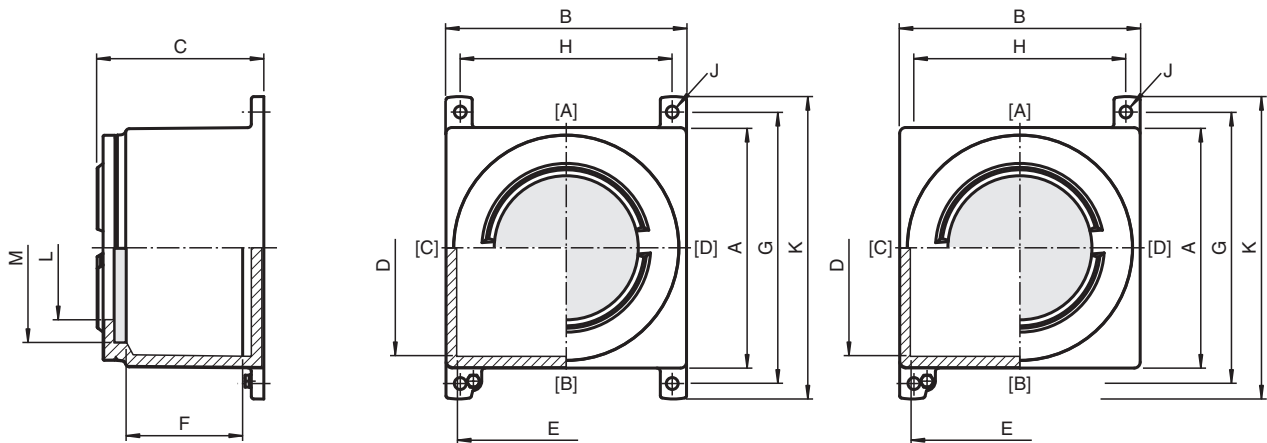
Dimensions and Enclosure Details GUB\*



| Type            | External dimensions [mm] |     |     |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Diameter [mm] |     | Mounting brackets quantity | Mass [kg] | Max. power dissipation at T4/+40 °C [W] |
|-----------------|--------------------------|-----|-----|-----|--------------------------|-----|-----|---------------|-----|----|---------------|-----|----------------------------|-----------|-----------------------------------------|
|                 | A                        | B   | C   | K   | D                        | E   | F   | G             | H   | J  | L             | M   |                            |           |                                         |
| GUB00*          | 119                      | 119 | 137 | 166 | 92                       | 92  | 102 | 145           | 95  | 8  | 112           | 97  | 2                          | 2         | 48                                      |
| GUB0*           | 150                      | 150 | 145 | 200 | 125                      | 125 | 117 | 178           | 125 | 8  | 136           | 114 | 2                          | 3.5       | 78                                      |
| GUB0H*          | 150                      | 150 | 185 | 200 | 125                      | 125 | 150 | 178           | 125 | 8  | 136           | 114 | 2                          | 4.5       | 91                                      |
| GUB1*           | 202                      | 202 | 155 | 255 | 170                      | 170 | 110 | 228           | 178 | 10 | 189           | 163 | 2                          | 6.4       | 122                                     |
| GUB1H*          | 202                      | 202 | 200 | 255 | 170                      | 170 | 150 | 228           | 178 | 10 | 189           | 163 | 2                          | 7.6       | 143                                     |
| GUB1PF*         | 176                      | 176 | 139 | 220 | 150                      | 150 | 105 | 196           | 154 | 10 | 170           | 147 | 2                          | 6.4       | 95                                      |
| GUB2*           | 250                      | 250 | 160 | 305 | 225                      | 225 | 112 | 275           | 232 | 10 | 231           | 206 | 4                          | 8.5       | 181                                     |
| GUB3*           | 260                      | 260 | 215 | 310 | 228                      | 228 | 169 | 285           | 228 | 10 | 231           | 206 | 4                          | 11.5      | 222                                     |
| GUB3L*          | 360                      | 360 | 238 | 430 | 325                      | 325 | 183 | 395           | 318 | 10 | 348           | 320 | 4                          | 21        | 293                                     |
| GUB4* (-20 °C)  | 450                      | 450 | 305 | 525 | 410                      | 410 | 227 | 485           | 410 | 10 | 437           | 406 | 4                          | 43.5      | 466                                     |
| GUB4*           | 450                      | 450 | 305 | 525 | 410                      | 410 | 215 | 485           | 410 | 10 | 437           | 406 | 4                          | 53.5      | 466                                     |
| GUB4A* (-20 °C) | 450                      | 450 | 235 | 525 | 410                      | 410 | 157 | 485           | 410 | 10 | 437           | 406 | 4                          | 38        | 400                                     |
| GUB4A*          | 450                      | 450 | 235 | 525 | 410                      | 410 | 145 | 485           | 410 | 10 | 437           | 406 | 4                          | 48        | 400                                     |
| GUB5*           | 555                      | 555 | 400 | 647 | 514                      | 514 | 266 | 595           | 500 | 14 | 546           | 504 | 4                          | 80        | 749                                     |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
Values might differ slightly due to manufacturing tolerances

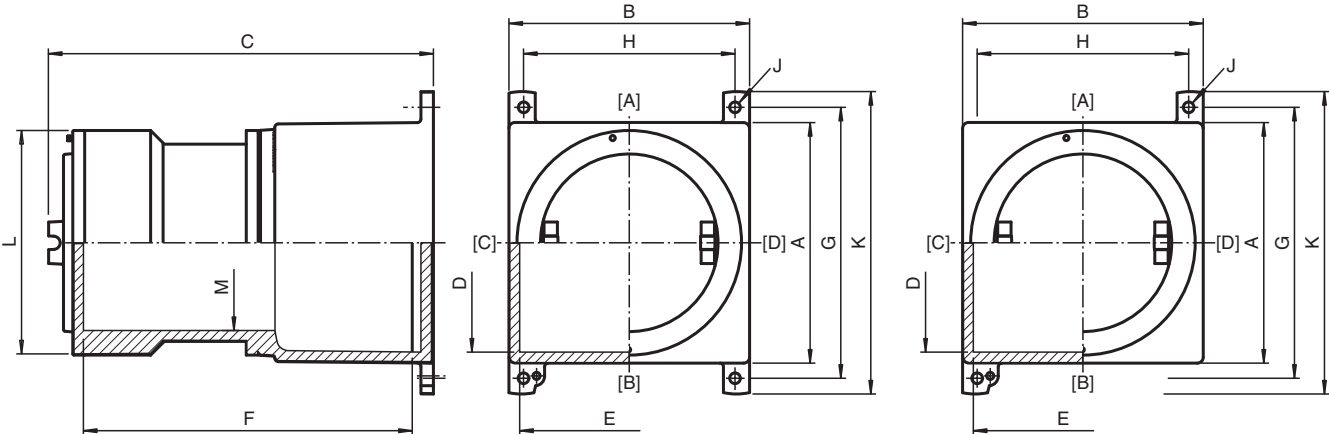
Dimensions and Enclosure Details GUBW\*



| Type             | External dimensions [mm] |     |     |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Diameter [mm] |     | Mounting brackets quantity | Mass [kg] | Max. power dissipation at T4/+40 °C [W] |
|------------------|--------------------------|-----|-----|-----|--------------------------|-----|-----|---------------|-----|----|---------------|-----|----------------------------|-----------|-----------------------------------------|
|                  | A                        | B   | C   | K   | D                        | E   | F   | G             | H   | J  | L             | M   |                            |           |                                         |
| GUBW00*          | 119                      | 119 | 121 | 166 | 92                       | 92  | 85  | 145           | 95  | 8  | 64            | 97  | 2                          | 2.1       | 48                                      |
| GUBW0*           | 150                      | 150 | 135 | 200 | 125                      | 125 | 105 | 178           | 125 | 8  | 79            | 114 | 2                          | 3.6       | 78                                      |
| GUBW0H*          | 150                      | 150 | 171 | 200 | 125                      | 125 | 137 | 178           | 125 | 8  | 79            | 114 | 2                          | 4.6       | 91                                      |
| GUBW1*           | 202                      | 202 | 134 | 255 | 170                      | 170 | 95  | 228           | 178 | 10 | 121           | 163 | 2                          | 6.3       | 122                                     |
| GUBW1H*          | 202                      | 202 | 176 | 255 | 170                      | 170 | 135 | 228           | 178 | 10 | 121           | 163 | 2                          | 7.5       | 143                                     |
| GUBW2*           | 250                      | 250 | 140 | 305 | 225                      | 225 | 93  | 275           | 232 | 10 | 160           | 206 | 4                          | 9         | 95                                      |
| GUBW3*           | 260                      | 260 | 193 | 310 | 228                      | 228 | 150 | 285           | 228 | 10 | 160           | 206 | 4                          | 11        | 181                                     |
| GUBW3L*          | 360                      | 360 | 219 | 430 | 325                      | 325 | 160 | 395           | 318 | 10 | 260           | 320 | 4                          | 22        | 222                                     |
| GUBW4* (-20 °C)  | 450                      | 450 | 281 | 525 | 410                      | 410 | 203 | 485           | 410 | 10 | 260           | 406 | 4                          | 44        | 293                                     |
| GUBW4*           | 450                      | 450 | 281 | 525 | 410                      | 410 | 203 | 485           | 410 | 10 | 260           | 406 | 4                          | 51        | 466                                     |
| GUBW4A* (-20 °C) | 450                      | 450 | 211 | 525 | 410                      | 410 | 133 | 485           | 410 | 10 | 260           | 406 | 4                          | 39        | 466                                     |
| GUBW4A*          | 450                      | 450 | 211 | 525 | 410                      | 410 | 133 | 485           | 410 | 10 | 260           | 406 | 4                          | 46        | 400                                     |
| GUBW5*           | 555                      | 555 | 400 | 647 | 514                      | 514 | 275 | 595           | 500 | 14 | 260           | 504 | 4                          | 80        | 749                                     |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
Values might differ slightly due to manufacturing tolerances

Dimensions and Enclosure Details GUBE\*

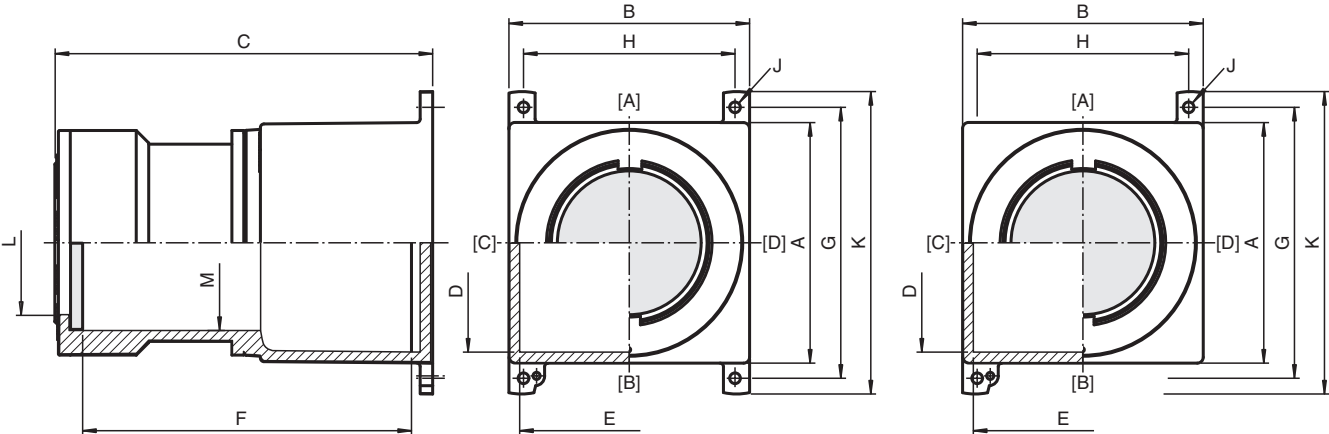


| Type             | External dimensions [mm] |     |     |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Diameter [mm] |     | Mounting brackets quantity | Mass [kg] | Max. power dissipation at T4/+40 °C [W] |
|------------------|--------------------------|-----|-----|-----|--------------------------|-----|-----|---------------|-----|----|---------------|-----|----------------------------|-----------|-----------------------------------------|
|                  | A                        | B   | C   | K   | D                        | E   | F   | G             | H   | J  | L             | M   |                            |           |                                         |
| GUBE0*           | 150                      | 150 | 252 | 200 | 125                      | 125 | 224 | 178           | 125 | 8  | 136           | 114 | 2                          | 3.3       | 111                                     |
| GUBE0H*          | 150                      | 150 | 292 | 200 | 125                      | 125 | 255 | 178           | 125 | 8  | 136           | 114 | 2                          | 4.8       | 125                                     |
| GUBE1*           | 202                      | 202 | 301 | 255 | 170                      | 170 | 255 | 228           | 178 | 10 | 189           | 163 | 2                          | 9.1       | 185                                     |
| GUBE1H*          | 202                      | 202 | 345 | 255 | 170                      | 170 | 299 | 228           | 178 | 10 | 189           | 163 | 2                          | 10.4      | 206                                     |
| GUBE2*           | 250                      | 250 | 340 | 305 | 225                      | 225 | 291 | 275           | 232 | 10 | 231           | 206 | 4                          | 13        | 283                                     |
| GUBE3*           | 260                      | 260 | 391 | 310 | 228                      | 228 | 345 | 285           | 228 | 10 | 231           | 206 | 4                          | 15.2      | 323                                     |
| GUBE3L*          | 360                      | 360 | 405 | 430 | 325                      | 325 | 345 | 395           | 318 | 10 | 348           | 320 | 4                          | 32.5      | 405                                     |
| GUBE3L*          | 360                      | 360 | 495 | 430 | 325                      | 325 | 435 | 395           | 318 | 10 | 348           | 320 | 4                          | 35        | 458                                     |
| GUBE4* (-20 °C)  | 450                      | 450 | 545 | 525 | 410                      | 410 | 470 | 485           | 410 | 10 | 437           | 406 | 4                          | 59        | 675                                     |
| GUBE4*           | 450                      | 450 | 545 | 525 | 410                      | 410 | 457 | 485           | 410 | 10 | 437           | 406 | 4                          | 69        | 675                                     |
| GUBE4A* (-20 °C) | 450                      | 450 | 475 | 525 | 410                      | 410 | 397 | 485           | 410 | 10 | 437           | 406 | 4                          | 54        | 609                                     |
| GUBE4A*          | 450                      | 450 | 475 | 525 | 410                      | 410 | 384 | 485           | 410 | 10 | 437           | 406 | 4                          | 64        | 609                                     |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
Values might differ slightly due to manufacturing tolerances



Dimensions and Enclosure Details GUBWE\*



| Type              | External dimensions [mm] |     |     |     | Internal dimensions [mm] |     |     | Mounting [mm] |     |    | Diameter [mm] |     | Mounting brackets quantity | Mass [kg] | Max. power dissipation at T4/+40 °C [W] |
|-------------------|--------------------------|-----|-----|-----|--------------------------|-----|-----|---------------|-----|----|---------------|-----|----------------------------|-----------|-----------------------------------------|
|                   | A                        | B   | C   | K   | D                        | E   | F   | G             | H   | J  | L             | M   |                            |           |                                         |
| GUBWE0*           | 150                      | 150 | 242 | 200 | 125                      | 125 | 212 | 178           | 125 | 8  | 79            | 114 | 2                          | 3.5       | 111                                     |
| GUBWE0H*          | 150                      | 150 | 278 | 200 | 125                      | 125 | 242 | 178           | 125 | 8  | 79            | 114 | 2                          | 5         | 125                                     |
| GUBWE1*           | 202                      | 202 | 281 | 255 | 170                      | 170 | 240 | 228           | 178 | 10 | 121           | 163 | 2                          | 9         | 185                                     |
| GUBWE1H*          | 202                      | 202 | 323 | 255 | 170                      | 170 | 284 | 228           | 178 | 10 | 121           | 163 | 2                          | 10.3      | 206                                     |
| GUBWE2*           | 250                      | 250 | 340 | 305 | 225                      | 225 | 272 | 275           | 232 | 10 | 160           | 206 | 4                          | 12.5      | 283                                     |
| GUBWE3*           | 260                      | 260 | 371 | 310 | 228                      | 228 | 330 | 285           | 228 | 10 | 160           | 206 | 4                          | 15.5      | 323                                     |
| GUBWEB3L*         | 360                      | 360 | 384 | 430 | 325                      | 325 | 322 | 395           | 318 | 10 | 260           | 320 | 4                          | 33.5      | 405                                     |
| GUBWE3L*          | 360                      | 360 | 474 | 430 | 325                      | 325 | 412 | 395           | 318 | 10 | 260           | 320 | 4                          | 36        | 458                                     |
| GUBWE4* (-20 °C)  | 450                      | 450 | 522 | 525 | 410                      | 410 | 445 | 485           | 410 | 10 | 260           | 406 | 4                          | 61        | 675                                     |
| GUBWE4*           | 450                      | 450 | 522 | 525 | 410                      | 410 | 445 | 485           | 410 | 10 | 260           | 406 | 4                          | 68        | 675                                     |
| GUBWE4A* (-20 °C) | 450                      | 450 | 452 | 525 | 410                      | 410 | 372 | 485           | 410 | 10 | 260           | 406 | 4                          | 56        | 609                                     |
| GUBWE4A*          | 450                      | 450 | 452 | 525 | 410                      | 410 | 372 | 485           | 410 | 10 | 260           | 406 | 4                          | 63        | 609                                     |

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands  
Values might differ slightly due to manufacturing tolerances

## Cable Entries max. Quantity per Size

| Type    | Cover | Faces A ... D |      |     |        |        |     |        |     |      | Bottom |      |     |        |        |
|---------|-------|---------------|------|-----|--------|--------|-----|--------|-----|------|--------|------|-----|--------|--------|
|         | M12   | M20           | M25  | M32 | M42    | M50    | M63 | M75    | M85 | M110 | M20    | M25  | M32 | M42    | M50    |
|         | 1/4"  | 1/2"          | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"   | 1/2"   | 3/4" | 1"  | 1-1/4" | 1-1/2" |
| GUB00*  | 1     | 4             | 3    | 2   | 1      | 1      | 1   | -      | -   | -    | 2      | 2    | 1   | -      | -      |
| GUB0*   | 1     | 6             | 5    | 3   | 2      | 2      | 1   | 1      | -   | -    | 4      | 3    | 1   | -      | -      |
| GUB0H*  | 1     | 10            | 8    | 4   | 3      | 2      | 1   | 1      | 1   | 1    | 4      | 3    | 1   | -      | -      |
| GUB1*   | 2     | 8             | 8    | 5   | 2      | 2      | 2   | 1      |     |      | 6      | 4    | 2   | 1      | 1      |
| GUB1H*  | 2     | 12            | 10   | 5   | 4      | 4      | 2   | 1      | 1   | 1    | 6      | 4    | 2   | 1      | 1      |
| GUB1PF* | 1     | 8             | 6    | 3   | 2      | 2      | 1   | -      | -   | -    | 4      | 3    | 1   | 1      | 1      |
| GUB2*   | 3     | 10            | 10   | 6   | 3      | 3      | 2   | 2      | -   | -    | 10     | 8    | 4   | 2      | 2      |
| GUB3*   | 3     | 20            | 15   | 10  | 6      | 5      | 3   | 2      | 2   | 1    | 10     | 8    | 4   | 2      | 2      |
| GUB3L*  | 8     | 30            | 25   | 15  | 8      | 8      | 5   | 3      | 2   | 1    | 20     | 12   | 10  | 4      | 4      |
| GUB4*   | 10    | 45            | 35   | 20  | 14     | 10     | 8   | 5      | 3   | 1    | 25     | 15   | 11  | 5      | 5      |
| GUB4A*  | 10    | 28            | 20   | 12  | 10     | 5      | 4   | 3      | 3   | -    | 25     | 15   | 11  | 5      | 5      |
| GUB5*   | 12    | 70            | 60   | 35  | 20     | 15     | 12  | 6      | 5   | 3    | 35     | 20   | 18  | 6      | 6      |

Metric ISO pitch 1.5mm, NPT ANSI ASME B1.20.1

Table shows drilling pattern for ambient temperature range -20 ... +60 °C.

For lower temperatures please contact Pepperl+Fuchs

For types of cable glands and combination of different gland sizes please contact Pepperl+Fuchs

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