

## **1.0 PRODUCT DESCRIPTION**

The Ex empty enclosure may be used for fitting electrical and mechanical components. The enclosure consists of high-quality aluminium AISI 12 with low copper. Lid and base are screwed together with stainless steel captive screws. A groove and tongue system with inserted sealing cord between the lid and base assures the high protection class IP 66 as per IEC 60529 : 1989+A1 : 2000 . The enclosure is mounted through the screw channels lying outside the sealing space. The enclosures conform to the relevant standards IEC/EN 60079-0, IEC/EN 60079-7 and IEC/EN 60079-31

## **2.0 TECHNICAL DATA**

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|--|--|
| MATERIAL   | : AISI 12  |
| SURFACE  | : PLAIN OR POWDER COATED                               |
| LID SCREW  | : STAINLESS STEEL , CAPTIVE SCREW                      |
| TIGHTNING TORQUE   | : M4 → (2 to 3) nm, M6 → (3 to 4) NM.                  |
| SERVICE TEMPERATURE  | : - 50 °C to +135 °C                                   |
| MECHANICAL STRENGTH  | : ACCORDANCE WITH 60079-0 , IMPACT ENERGY 7 NM         |
| PROTECTION CLASS   | : EN 60529, IP 66                                      |
| COMPLIANCE STANDARD  | : IEC/EN 60079-0 , IEC/EN 60079-7 and IEC/EN 60079-31. |
| PROCESS CONTROL SYSTEM   | : ISO 9001:2008 , IEC 80079-34 : 2011                  |
| INTERNAL/EXTERNAL EARTHING : 4MM <sup>2</sup> TO 120MM <sup>2</sup><br>INTERNAL AND EXTERNAL |  |

### **3.0 EXPLOSION PROTECTION**



**0539**

II 2 G Ex e IIC Gb  
II 2 D Ex tb IIIC Db IP66  
DEMKO 13 ATEX 1327771U  
IECEX UL 13.0042U

### **3 SAFETY INSTRUCTIONS**

The supplied Ex empty enclosures are U-certified components which serve as a basis for completely certified devices. All universally valid rules and the other binding directives relating to workplace safety, accident prevention and environmental protection must be adhered to. Raychem RPG boxes are not certified to Zone 0 and Zone 20. No installation should be carried out under live conditions.

Once installed do not dismantle except for occasional inspection. Raychem RPG enclosures shall only be used where temperature at the point of entry is between (- 50 °C to +135 °C)

Enclosures shall be mounted horizontally over the wall or on the horizontal surfaces. All cable entry devices and blanking elements must be certified for protection types 'e' and 'tb' and must have a minimum IP 66 rating. All unused device openings must be fitted with a certified close-up plug of protection types 'e' and 'tb' and must have a minimum IP 66 rating.

The suitability of all entries should be considered in the end use application.

### **4 INSTALLATIONS**

The Ex empty enclosures are suitable for accommodating components certified for the Ex areas, such as terminals, switches, cable glands, measuring instruments, control equipment and display units etc. When processing the enclosures, attention must be paid to ensuring that there is suitable minimum spacing between individual boreholes and from the sealing edge of the enclosure so that the enclosure with the fittings will be able to withstand an impact test.

The minimum spacing depends on the geometrical dimensions of the built-in components; a longer lever will require an increase in the minimum spacing and accordingly must be determined specifically.

In the case of enclosures that have to be set up outside, it may be necessary to take measures to ensure that operation is in accordance with the intended use. This would include, for example, roofs as protection against rain or outer housings with an adequate protection class. These Enclosures should not be used in any application other than those mentioned here or in our data sheets, unless Raychem RPG states in writing that the product is suitable for such application. Raychem RPG can take no responsibility for any damage, injury or other consequential loss caused where the Aluminium Enclosures are not installed or used according to the instructions.

## **5.0 Cable Entry**

The minimum distance of the drillings is to be kept in accordance with the table, drilling space for cable glands and stopping plugs. All cable entry devices and blanking elements must be certified for protection types 'e' and 'tb' and must have a minimum IP 66 rating. All unused device openings must be fitted with a certified close-up plug of protection types 'e' and 'tb' and must have a minimum IP 66/IP67/ IP68 rating. The suitability of all entries should be considered in the end use application.

