

TERRABOX TCB030/B2 GROUNDING SYSTEM - BIG BAG

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

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CONTROL & CONNECTION EQUIPMENT

ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)

Terrabox TCB030/B2 is designed for direct installation in explosion hazard areas and for connecting an active TERRA-C/B grounding clamp for Big Bag. The dual-color indicator lamp signals the correct grounding state, and the integrated contacts allow an enable circuit to be implemented.




The active TERRA-C/B grounding clamps are used together with the Terrabox TCB030/B2 ground monitoring system to establish and monitor grounding connections. These devices are used when decanting or filling potentially explosive substances. Existing electrostatic charges are discharged effectively in a controlled manner.

The TERRA-C/B active grounding clamps feature extremely hard and sharp collet jaws. The jaws also feature a continuously high clamping force, ensuring a secure connection to the equipotential bonding at all times.





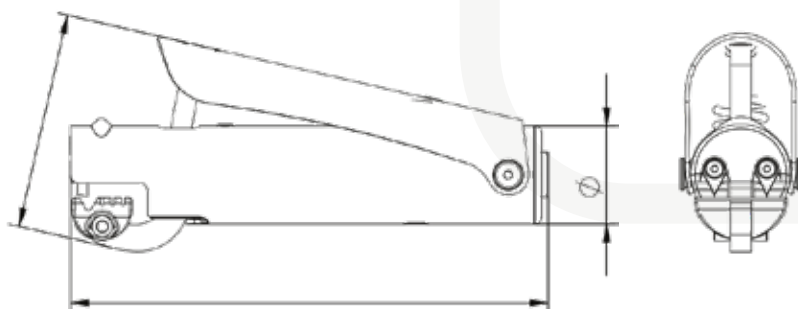
EU-Type Examination Certificate

ITEM REFERENCES

| Designation: | Item No.: |
|---|-----------|
|  TERRABOX TCB030 / B2 | 6D0851 |
|  5m Grounding cord set blue cable KG/BSAB050 | 6D0815 |
|  TERRA-C / BOSBX Grounding Clamp | 6D0822 |

TERRA-C / B CLAMP TECHNICAL SPECIFICATIONS

| | |
|------------------------|---|
| Marking: |  II 1G Ex ia IIC T4 Ga  II 1D Ex ia IIIC T135°C Da |
| Certificate: | EU-Type Examination Certificate |
| Operating temperature: | -40°C to +70°C |
| Ambient humidity: | Max. 80% rel. humidity, non-condensing |
| Clamp material: | Stainless steel, PP |
| Connection: | With integrated 4-poles coupling plug |
| Ingress protection: | IP67 according to EN 60529 |
| Dimensions: | 185 x 38 x 84 mm |
| Weight: | 0,35 kg |





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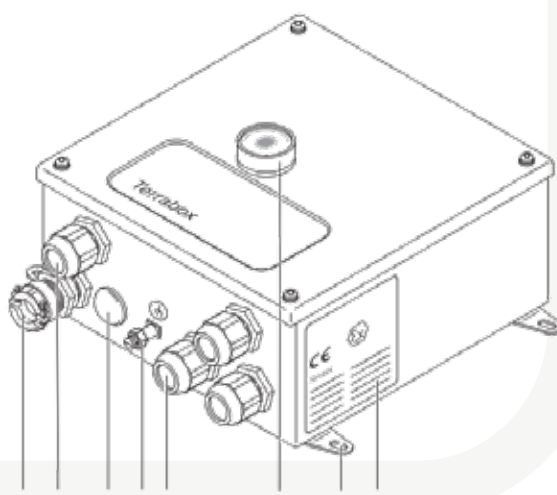
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TERRABOX TCB030 / B2 TECHNICAL SPECIFICATIONS

| | |
|--|--|
| Marking: |  II 2(1)G Ex eb mb [ia Ga] IIC T5 Gb  II 2(1)D Ex tb [ia Da] IIIC T100°C Db |
| Certificate: | EU-Type Examination Certificate |
| Operating temperature: | -20°C to +70°C |
| Ambient humidity: | Max. 70 % r.h., non-dewing. |
| Supply voltage: | 230 (210...250) V AC 50/60 Hz, 50 mA. Maximum safety voltage $U_m = 250$ V |
| Design: | Sheet metal steel with wall bracket, enameled |
| Ingress protection: | IP64 according to EN 60529 |
| Dimensions: | 211 x 211 x 123 mm |
| Weight: | Approx. 5 kg |
| Indicator signal: (Contact circuit) | 2 floating changeover contacts Load capacity: $U \leq 230$ V; $I \leq 5$ A; $P \leq 100$ VA Maximum safety voltage $U_m = 250$ V, Switching signaled by dual color indicator light red/green |
| Measurement circuit: | Intrinsically safe, EN 60079-11 Maximum voltage U_o : 35 V Maximum current I_o : 1.5 mA Maximum output P_o : 13 mW Maximum permissible connected load Capacity / inductance: C_o/L_o : 37nF/50mH or 45nF/2mH, linear characteristic |
| Operating points: | BIG BAG TCB030/B_: ON <50 MOhm, OFF >100 MOhm / $\pm 20\%$ |

VIEW OF APPLIANCE

| | | |
|---|---|--|
|  | 1 | Cable gland with kink guard (Ex) |
| | 2 | Cable inlet |
| | 3 | Blanking plug |
| | 4 | Ground terminal |
| | 5 | Cable inlet (3x) |
| | 6 | Indicator lamp, dual color (green/red) |
| | 7 | Mounting bracket (4x) |
| | 8 | Type plate |

