

TNCN

The TNCN range of 316 stainless steel Ex e enclosures are designed for use in any environment where an explosive atmosphere may be present and are especially recommended for chemical agent environments, sea-water corrosion resistance and extremes of low and high temperature.

Specifications

| | |
|---------------------------|---|
| Material | Acid Resistant Stainless steel AISI316L |
| IP Rating | IP66 (IP67 and IP68 upon request) |
| Temperature | -40°C to +40°C (T5) -40°C to +60°C (T6/T4) Option: -50°C to +200°C |
| Approvals | |
| - ATEX | DNV-2001-OSL-ATEX-0176 DNV-2008-OSL-ATEX-42438U |
| - IECEx | IECEx DNV 09.005U IECEx DNV 09.004 |
| - CSA | CSA 2036776 |
| - Brazilian | 09/UL-BRCN-0001 |
| - GOST | GOST Certificate |
| Standards | EN/IEC: 60079-0, 60079-7 EN:61241-0, 61241-1 |
| Ex-Code | Ex e II T6/T4 / Ex [ia] IIC T6 Ex tD A21 T85°C - T110°C Ⓔ II 2 GD and EPL Gb/Db |
| Cover gasket | Silicone (temp. -40°C to +200°C) |
| Surface treatment | Acidized Pickling as standard Electropolished as an option |
| Material thickness | Min. 1.5 mm (depending on the box size) |
| Earthing | Internal earth bar/bracket External earth bracket |
| Drain Plug | Optional |
| Gland Plate | Optional |



Terminal box: maximum heat dissipation - number of terminals

| Maximum heat dissipation | |
|--------------------------|------------------------------------|
| Box type | Max. dissipated power at Tamb=40°C |
| 121009 | 6 W |
| 151510 | 15 W |
| 202010 | 20 W |
| 202015 | 20 W |
| 302015 | 30 W |
| 282815 | 30 W |
| 383815 | 40 W |
| 575715 | 90 W |

The maximum dissipated power level for terminal box sizes not listed in the above table is equal to the nearest smaller size box.

Fixing dimensions

| Box type | X (mm) | Y (mm) |
|----------|--------|--------|
| 121009 | | 151 |
| 151510 | | 181 |
| 202010 | 230 | 160 |
| 202015 | 230 | 160 |
| 302015 | 230 | 260 |
| 282815 | 310 | 240 |
| 383815 | 410 | 340 |
| 575715 | 600 | 530 |

TNCN Range of stocked boxes

| Type | A Width (cm) | B Height (cm) | C Depth (cm) | Volume (dm³) | Weight (kg) |
|----------|-----------------|------------------|-----------------|-----------------|----------------|
| 121009** | 12 | 10 | 9 | 1.08 | 1.5 |
| 151510** | 15 | 15 | 10 | 2.25 | 2.5 |
| 202010 | 20 | 20 | 10 | 4.00 | 3.00 |
| 202015 | 20 | 20 | 15 | 6.00 | 3.5 |
| 302015 | 30 | 20 | 15 | 9.00 | 5.0 |
| 282815 | 28 | 28 | 15 | 11.76 | 5.2 |
| 383815 | 38 | 38 | 15 | 21.66 | 8.1 |
| 575715 | 57 | 57 | 15 | 48.74 | 16.4 |

TNCN Measurement Table – range of stocked boxes.

Other sizes are available upon request. The boxes are delivered as standard with left hinged covers held to the enclosure by screws.

Quick locks, screws only, or other systems can be delivered upon request.

** No hinges – screws only

| A or B Width/ Height (cm) | C Depth (cm) | M20 | M25 |
|---------------------------|--------------|-----|-----|
| 15 | 10 | 8 | 6 |
| | 15 | 12 | 9 |
| | 20 | 16 | 12 |
| | 27 | 24 | 15 |
| 20 | 10 | 10 | 10 |
| | 15 | 15 | 15 |
| | 20 | 25 | 20 |
| | 27 | 35 | 30 |
| 30 | 10 | 15 | 14 |
| | 15 | 24 | 21 |
| | 20 | 40 | 28 |
| | 27 | 56 | 42 |
| 38 | 10 | 20 | 18 |
| | 15 | 30 | 27 |
| | 20 | 50 | 36 |
| | 27 | 70 | 54 |
| 40 | 10 | 22 | 18 |
| | 15 | 3 | 27 |
| | 20 | 55 | 36 |
| | 27 | 77 | 54 |
| 45 | 10 | 24 | 20 |
| | 15 | 36 | 30 |
| | 20 | 60 | 40 |
| | 27 | 84 | 60 |
| 57 | 10 | 32 | 26 |
| | 15 | 48 | 39 |
| | 20 | 80 | 52 |
| | 30 | 128 | 78 |
| 76 | 10 | 42 | 36 |
| | 15 | 63 | 54 |
| | 20 | 105 | 72 |
| | 27 | 147 | 108 |

Entry Matrix

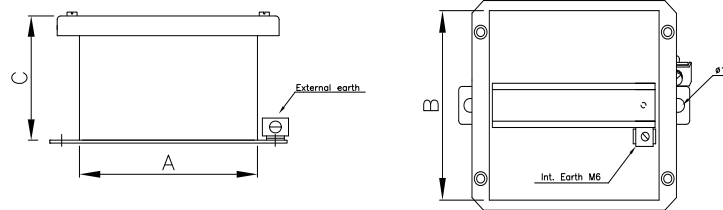
This table lists our recommendations for the maximum quantity of glands for installation in 1 face (the width column in the table) on TNCN Junction Boxes.

Note: Recommended quantity. MCT-frames can be fitted in boxes with a minimum depth of 20 cm.

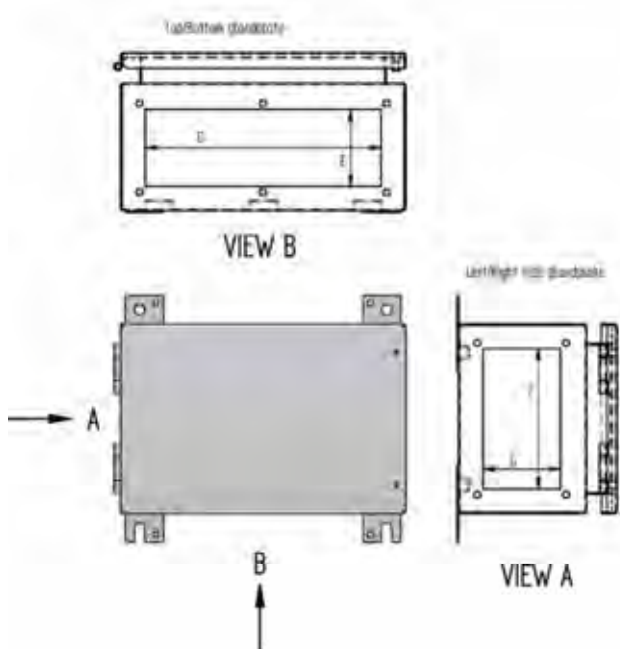
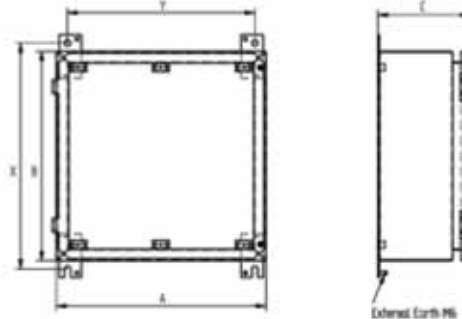


Dimensions

TNCN 121009/151509



TNCN 202010-575715



| Box | Top/Bottom | | Side (L+R) | |
|--------|------------|----|------------|----|
| | A | B | C | D |
| 202010 | 148 | 36 | 148 | 81 |
| 202015 | 148 | 81 | 148 | 81 |
| 302015 | 248 | 81 | 148 | 81 |
| 282815 | 228 | 81 | 228 | 81 |
| 383815 | 328 | 81 | 328 | 81 |
| 575715 | 518 | 81 | 518 | 81 |



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