

(1) EU-Type-Examination Certificate

- (2) Component intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



- (3) **Certificate Number** TÜV CY 20 ATEX 0206268 U **Issue: 01**
- (4) for the equipment: Empty enclosures Series Type: CPN U; SDN U
- (5) of the manufacturer: **MP Gamma S.r.l.**
- (6) Address: Via Cisa Ligure, 43/A
42041 Brescello (RE) – ITALY
- Order number: 0206268
- Date of issue: 2023-09-27

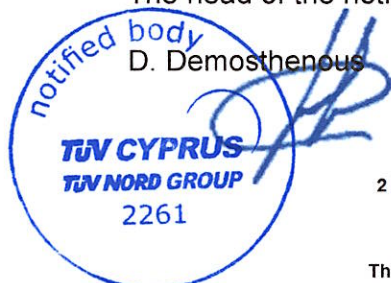
- (7) The design of this component and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
- (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 23 0206268.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN IEC 60079-7:2015/A1:2018** **EN 60079-31:2014**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified component in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this component which are not covered by this certificate.
- (12) The marking of the component or protective system must include the following:

 II 2G Ex eb IIC Gb
II 2D Ex tb IIIC Db

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous



Accredited by CYS-CYSAB
Certificate No. C 004-2

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(13) SCHEDULE

(14) EU-Type-Examination Certificate No. TÜV CY 20 ATEX 0206268 U Issue 01

(15) Description of component

Empty Enclosures AISI304, AISI316 Model CPN U, SDN U are identified according the identification code which is referred to external geometries, to inner back panel dimensions, number of hinges (if any), number of locking points, number of internal/external fixing holes, thickness of box material, thickness of cover material, fixing type, glass windows (only for enclosure with glass windows) and flanges type (only for enclosure with flanges) suitable for Group II 2G EPL Gb and II 2D EPL Db.

The empty enclosures are in execution Ex eb (increased safety) and Ex tb (dust protection by enclosure) are made in stainless steel materials AIS304 or AIS316L, bent and soldered by TIG methods in Argon protected atmosphere. Depending on dimensions, walls and covers thickness may be 1,2 mm, 1,5 mm, 2,0 mm or 3,0 mm differentiating box enclosure and cover.

The drilling and re-work of the stainless steel SDN and CPN series U are performed according MP Gamma internal rules in order to guarantee that the IP degree and the mechanical resistance of the equipment are preserved. The number of drilled holes, windows the diameter and dimensions and the reciprocal distances are defined in the technical note.

The cover is fixed to the enclosure body means metallic screws; a gasket is provided between enclosure's body and cover to guarantee the protection degree (IP66).

Each enclosure and cover are provided with internal earthing terminal screw electro-welded, and nut 'and counter-nut' clamping system. Metal enclosures are provided by external earthing screw and bushing.

All fixing screws, external/internal earth screws are made in stainless steel class A2.

New foamed silicone sealing for enclosures, new plate for external marking label in AISI 304 / AISI316 may be adopted to let user/integrator to easily apply external label and new material for glass windows.

Allowable service temperature range:

Permissible range of service temperature: -30°C to +70°C (Polyurethane Sealing).
-50°C to +100°C (Silicon Sealing).
-50°C to +100°C (Foamed Silicone Sealing)

Identification code:

The CPN junction box's identification code is composed as follow:

| CPN | L | H | D | F | Enclosure series |
|-----|---|---|---|---|---|
| | | | | | Length: 30 = 300 mm ; 38 = 380 mm ; 40 = 400 mm 45 = 450 mm ; 42 = 450 mm ; 50 = 500 mm 60 = 600 mm ; 75 = 750 mm ; 80 = 800 mm |
| | | | | | Height: 30 = 300 mm ; 38 = 380 mm ; 45 = 450 mm 50 = 500 mm ; 60 = 600 mm ; 75 = 700 mm 75 = 750 mm ; 90 = 900 mm ; 100 = 1000 mm 120 = 1200 mm |
| | | | | | Depth: 21 = 210 mm ; 25 = 250 mm ; 30 = 300 mm 40 = 400 mm |
| | | | | | Flanges (if required) F1 F2 F3 F4 |

The SDN junction box's identification code is composed as follow:

| SDN | L | H | D | F | Enclosure series |
|-----|---|---|---|---|---|
| | | | | | Length: 9 = 90 mm ; 10 = 100 mm ; 15 = 150 mm 20 = 200 mm ; 25 = 250 mm ; 30 = 300 mm 40 = 400 mm |
| | | | | | Height: 9 = 90 mm ; 10 = 100 mm ; 16 = 160 mm ; 22 = 220 mm ; 28 = 280 mm ; 34 = 340 mm 40 = 400 mm |
| | | | | | Depth: 7 = 70 mm ; 9 = 90 mm ; 12 = 120 mm 15 = 150 mm |
| | | | | | Flanges (if required) F1 F2 F3 F4 |

Ratings:

Degree of protection according to EN 60529 is IP66.

Rated Voltage: up to 630 Vac.

Warning labels:

None.

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1:

New foamed silicone sealing for enclosures, new external plate for marking label and new material for glass windows.

(16) Test documents are listed in the test report No. 23 0206268.

(17) Special conditions for installation

None

(18) Essential Health and Safety Requirements

No additional ones. Assured by compliance with the standards set out in the [9].