



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CML 18.0193X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-03-26\)](#)

Status: **Current**

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Date of Issue: **2019-03-26**

Applicant: **CMP Products Ltd**

Unit 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH
United Kingdom

Equipment: **TMC2X Range of Cable Glands**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Dust Ignition "ta"**

Marking:

Ex db IIC Gb

Ex eb IIC Gb

Ex ta IIIC Da

Ta= -60°C to +85°C

*Approved for issue on behalf of the IECEx
Certification Body:*

R C Marshall

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

2019-03-27

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Date of Issue: **2019-03-26** Page 2 of 3
Manufacturer: **CMP Products Ltd**
Unit 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/CML/ExTR19.0052/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TMC2X Range of cable glands are designed to be threaded into suitably certified enclosures to permit the entry of metal clad (MC) cables. Each gland comprises a threaded front item and a nut housing an elastomeric sealing ring and clamping spring assembly. The assembly is compressed by the rear threaded rear nut.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.

Annex:

[IECEX CML 18.0193X Iss. 0 Certificate Annex.pdf](#)

Annexe to: IECEx CML 18.0193X Iss. 0
Applicant: CMP Product Ltd
Apparatus: Type TMC2X Range of Cable Glands



Description

The TMC2X Range of cable glands are designed to be threaded into suitably certified enclosures to permit the entry of metal clad (MC) cables. Each gland comprises a threaded front item and a nut housing an elastomeric sealing ring and clamping spring assembly. The assembly is compressed by the rear threaded rear nut.

TMC2X types are provided with a compound seal and tube arrangement effectively sealing the cable cores.

Materials of manufacture:

The standard material supplied is:

Aluminium	BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS EN 1676:2010 Grade LM25 TF
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Alternate materials are:

Stainless steel	BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L
Mild steel	BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N) All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm

Alternative entry component thread forms:

Metric	ISO 965-1, ISO 965-3 medium fit (6g) for external threads
ET (Conduit)	BS31:1940 (1979), Table A
PG	DIN 40430:1971
BSPP	BS2779:1986 class A full form for external threads
BSPT	BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISO	ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads
NPT	ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

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Gland/ seal sizes are proportional to the cable outer diameter as the table below:

Gland Type		Range take (inches)		Max no. of cores	Typical entry thread size	
Current	Alternative	Min.	Max.		NPT	Metric
TMC2X050S	TMC2X**075	0.500	0.750	11	½"	M20 x 1.5
TMC2X050	TMC2X**099	0.690	0.990	11	¾"	M20 x 1.5
TMC2X075	TMC2X**118	0.870	1.180	21	1"	M25 x 1.5
TMC2X100	TMC2X**137	1.020	1.370	38	1 ¼"	M32 x 1.5
TMC2X125S	TMC2X**162	1.300	1.620	59	1 ½"	M40 x 1.5
TMC2X125	TMC2X**190	1.570	1.900	59	1 ½"	M40 x 1.5
TMC2X150S	TMC2X**200	1.650	2.000	89	2"	M50 x 1.5
TMC2X150	TMC2X**233	1.900	2.320	89	2"	M50 x 1.5
TMC2X200S	TMC2X**233	1.900	2.320	115	2 ½"	M63 x 1.5
TMC2X200	TMC2X**272	2.270	2.710	115	2 ½"	M63 x 1.5
TMC2X250	TMC2X**272	2.270	2.710	140	3"	M75 x 1.5
TMC2X300	TMC2X**325	2.610	3.250	140	3 ½"	M90 x 2.0
TMC2X350	TMC2X**376	3.160	3.760	140	4"	M100 x 2.0
TMC2X400	TMC2X**425	3.700	4.250	200	4"	M115 x 2.0
N/A	TMC2X-M50**1621RA*/S	1.300	1.620	59	N/A	M50 x 1.5
N/A	TMC2X-M63**233/2001RA*	1.650	2.000	89	N/A	M63 x 1.5

Notes:

- Sira 09ATEX1165X and IECEx SIR 09.0069X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 09ATEX1165X and IECEx SIR 09.0069X.
- Where Sira 09ATEX1165X and/or IECEx SIR 09.0069X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

Conditions of Manufacture

None.



Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. The glands shall only be fitted to enclosures where the temperature, at the point of mounting, is below 85°C.
- ii. The cable shall be effectively clamped as close as possible to the gland.
- iii. When used for increased safety (Ex e) or dust protection by enclosure (Ex t) applications, the user shall provide a suitable interface seal between the gland and associated enclosure to maintain the appropriate level of ingress protection of IP54 for increased safety and IP6X for dust protection by enclosure.
- iv. The TMC2X cable glands comprise a flameproof labyrinth joint having length and gap dimensions which are other than those specified in EN 60079-1 and are not intended to be repaired in service.