Mining And Surface Certification (Pty) Ltd

2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

IA CERTIFICATE	MASC S/22-8362X	**Issue**	2
Issue Date	27 March 2025	**Expiry Date**	27 March 2028
**** Based on Certificate No**	IECEx CML 16.0008X	**Issue / Variations / Amendment**	7
Requested by	**Pepperl+Fuchs (Pty) Ltd** 8 Glen Eagle Office Park, Koorsboom Ave, Glen Marais, Kempton Park, 1619 , South Africa		
Manufacturer	**Pepperl+Fuchs SE** Lilienthalstrasse 200, 68307 Mannheim, Germany		
Description	The Control Stations are a range of increased safety enclosures fitted with a selection of separately certified components. The Control Stations utilise the following separately certified enclosures: Refer to **Base certificate Annex for full description and Conditions of Manufacture.		
Equipment	Control Stations, Local Control Units and Disconnect Switches		
MARKING: **Original marking as per certificate ** remains applicable.** **IA number must be added.**	**Type:** **Ex Marking:**	Ex db eb IIC T* Gb Ex ib IIC T* Gb Ex db eb ib op pr IIC T* Gb Ex eb op pr IIC T* Gb Ex tb IIIC T*°C Db -50°C, -40°C, -25°C, -20°C or 0°C to +40°C or +55°C.	
	IA Number: **Warnings:**	MASC S/22-8362X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN):		"It is a requirement under ATEX that all equipment for category 1 and 2 areas must have 3rd party quality assurance from a notified body. This is accepted to cover the equipment's quality requirements."	
Quality Assurance report (QAR) / Notification (QAN) Expiry date:			

Compliance:

The equipment as described above has been allocated the rating Explosion Protected 'as above' utilizing the SANS/IEC Standards:

- SANS (IEC) 60079-0: 2019 Equipment - General requirements
- SANS (IEC) 60079-1: 2015 Equipment protection by flameproof enclosures "d"
- SANS (IEC) 60079-7: 2019 Equipment protection by increased safety "e"
- SANS (IEC) 60079-11: 2012 Equipment protection by intrinsic safety "i"
- SANS (IEC) 60079-18: 2022 Protection by encapsulation "m"
- SANS (IEC) 60079-28: 2016 Protection of equipment and transmission systems using optical radiation
- SANS (IEC) 60079-31: 2023 Equipment dust ignition protection by enclosure "t"

Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.

Specific conditions of use "X":

- Refer to Annex A below for more details.

Conditions of manufacture:

- Refer to Annex A below for more details.

S. JORDAAN
TECHNICAL SPECIALIST

N. VILOJEN
TECHNICAL OFFICER

This certificate covers all units sold as long as the QAR/QAN remains valid.
According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:
SANS 10086 requirements;
Any conditions mentioned in the above certificate;
Any relevant requirements of the MHS Act;
Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

Mining And Surface Certification (Pty) Ltd
Unit 5 Lelyta Park, 45 Jurg Avenue, Hennopspark, Ext 87
Centurion 0157

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx CML 16.0008X.	
Description (According to Base Certificate) **	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."	
Supplementary	Issue 1: Supplemented for Review as per NCoP 2398. Issue 2: Supplemented to include LRP according to latest IECEx.
Standard compliance	See Base Certificate **
Specific conditions of use ("X")	• The user/installer shall install the range of Control Stations and Local Control Units and shall comply with any restrictions or special conditions for safe use that are applicable to the certified equipment or components that are installed in the enclosures. • Equipment fitted with warning 'POTENTIAL ELECTROSTATIC CHARGING HAZARD' shall only be cleaned with a damp cloth to prevent the risk of electrostatic discharge. • Repair of any flameproof joints must be made in compliance with the structural specification provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN IEC/IEC 60079-1. • iv. Any connected optical bundles must be supported within the equipment using supplied mounting clips to prevent strain on the individual fibres as they enter the component. • v. When the equipment is fitted with a flange adapter, it must be installed in line with manufacturer's instructions DOCT-5152. • When Ex ia panel meters (certificate nos. ITS 14ATEX28077X/IECEx ITS 14.0048X and ITS 15ATEX28365X/ IECEx ITS 15.0056X) are fitted, they must be supplied by an appropriately rated Zener barrier or galvanic isolator located in a safe area. • vii. When Ex ib illuminated push button or pilot lights (certificate no. TUV 08ATEX7685U) are fitted, the enclosures shall only be fitted in low impact risk areas and additional protection from permanent UV exposure is required. • When Ex ib push button, switch selector or key operated switch selectors (certificate no. TUV 08ATEX7685U) are fitted, the enclosures shall only be fitted in low impact risk areas. • When non-light transmitting CFP.* series operators (certificate no. CML 16ATEX3339U/IECEx CML 16.0114U) are fitted, the enclosures shall only be fitted in low impact risk areas. • The torque applied to the fasteners on enclosure Types SR* shall be at least 3 Nm. • For the dust-only applications, internal uncertified electrical parts shall not be mounted directly to the walls of the enclosure and where multiple parts are installed, they shall be evenly spaced.
Conditions of manufacture	• Refer to **Base certificates Annex.
Conditions of Certification	• This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate. • As per ARP 0108: 2018 / NCoP 2398: 2022 (as applicable) a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date). • The apparatus must be additionally marked with the MASC marking details above. • This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date. • The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate. • The certification on which this IA Certificate is based must remain valid. • The extent of the requirements in the ARP 0108:2018 / NCoP 2398: 2022 (as applicable), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged. • The Ex-quality assurance notification/report for the equipment must remain valid.
Conclusion:	• From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **. • The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).

Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07
Directors: Roelof Viljoen & Francoius du Toit
Unit #5, Lelyta Park, 45 Jurg Avenue, Hennopspark Ext 87, Centurion, 0157
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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx CML 16.0008X**

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Certificate history:

Status: **Current**

Issue No: 7

Issue 6 (2023-11-03)
Issue 5 (2022-07-22)
Issue 4 (2021-03-31)
Issue 3 (2021-01-05)
Issue 2 (2018-07-04)
Issue 1 (2017-07-13)
Issue 0 (2016-07-08)

Date of Issue: 2025-03-24

Applicant: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Equipment: **Control Stations, Local Control Units and Disconnect Switches**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Intrinisic Safety "ib", Encapsulation "mb", Optical Radiation "op pr", Dust Ignition "tb"**

Marking: Ex db eb IIC T* Gb
Ex ib IIC T* Gb
Ex db eb ib op pr IIC T* Gb
Ex eb op pr IIC T* Gb
Ex tb IIIC T*°C Db
-50°C, -40°C, -25°C, -20°C or 0°C to +40°C or +55°C.
(*General marking options shown above. In some cases, coding may include symbol 'mb'. Refer to Annex for further detail).

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

Position: **Assistant Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

IECEx Certificate of Conformity

Manufacturer: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Manufacturing locations:

Pepperl+Fuchs SE
Bussmatten 10-12
77815 Buehl/Baden
Germany

Pepperl + Fuchs (Australia) Pty Ltd
131-149 Link Drive
Campbellfield Vic 3061
Australia

Pepperl+Fuchs (Shanghai) Automation Engineering Co. Ltd.
Nr. 269, Yuanzhong Rd., Huinan Town,
Pudong District, Shanghai, 201399
China

See following pages for more locations

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 equipment 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 Edition:7.0 — Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-11:2011 Edition:6.0 — Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

IEC 60079-18:2017 Edition:4.1 — Explosive atmospheres - Part 18: Protection by encapsulation "m"

IEC 60079-28:2015 Edition:2 — Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

IEC 60079-31:2022 Edition:3.0 — Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

IEC 60079-7:2017 Edition:5.1 — Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with 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 Reports:

GB/CML/ExTR16.0042/00
GB/CML/ExTR17.0069/00
GB/CML/ExTR18.0135/00
GB/CML/ExTR20.0233/00
GB/CML/ExTR20.0239/00
GB/CML/ExTR22.0094/00
GB/CML/ExTR23.0277/00
GB/CML/ExTR25.0026/00

Quality Assessment Reports:

DE/PTB/QAR06.0015/22
FR/INE/QAR12.0003/12
US/UL/QAR07.0005/19
US/UL/QAR19.0002/04

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Control Stations are a range of increased safety enclosures fitted with a selection of separately certified components. The Control Stations utilise the following separately certified enclosures:

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

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduces the following modifications:

1. To recognise the change in certificate number of the CFP Ex Components and DIS disconnect switches, utilised as Ex Components in the certified equipment, from Sira 14ATEX1239U to CML 16ATEX3339U. The Conditions of Manufacture have been updated accordingly and a Specific Condition of Use has been added.

Issue 2

This issue introduces the following modifications:

1. To include an additional GR.CS* Control Station using GR.* Anti-static glass fibre reinforced polyester, Ex Component certified enclosure.
2. To include the option of using the GR.* Anti-static glass fibre reinforced polyester enclosure for the DIS Switch Disconnectors and SAF Safety Switches.
3. To update the construction of the XL***CS and FXL***CS Control Stations with a replacement certified Ex Component enclosure.
4. To update all drawings to include the above modifications and clarify the construction and limitation of parts used.
5. The description and the Conditions of Manufacture have been updated in line with the above changes.

Issue 3

This issue introduces the following modifications:

1. Updating the Applicant
2. Updating the QAR
3. Updating the manufacturing locations

Issue 4

This issue introduces the following modifications:

1. The change of company name from Pepperl+Fuchs GmbH to Pepperl+Fuchs SE.
2. The introduction of the SR steel enclosure.
3. The removal of a Condition of Manufacture.
4. The correction of a typographic error.
5. Minor editorial corrections to company addresses

Issue 5

This issue introduces the following modifications:

1. Update certificate to latest editions of standards
2. Derate FXL enclosure option to -40°C to bring inline with component approval certificate
3. Introduce new LRP enclosure and accompanying Ploss figures
4. Allow variable enclosure temperature rise beyond 15K and the principle of calculating T class from Ta + temperature rise, in schedule drawings
5. Allow new Ex tb dust only application allowing fitment of non Ex- certified internals up to allowed MDP figure
6. Correct spacing of CFP control functions to 40mm
7. Recognise new drawing of flap or other accessory secured by sealing nuts
8. Update type codes in schedule drawings
9. Update certificate numbers of CFP IS controls in schedule drawings
10. Allow controls on sides of Control Stations and Local Control Units
11. Update to manufacturing locations

Issue 6

This issue introduces the following modifications:

1. To assess the thermal effects of various mounting configurations
2. To update to the latest version of standard: IEC 60079-31:2022 Ed 3.0

Issue 7

This issue introduces the following modifications:

1. To include an additional Manufacturer location.

IECEx Certificate of Conformity

Additional manufacturing locations:

Pepperl+Fuchs Manufacturing (India) Private Limited
Plot No. A-13
Sipcot Industrial Growth Centre
ORAGADAM TAMIL NADU 602105
India

Pepperl+Fuch srl
Via Galileo Galilei, 1B/B1
I-20875 burago di Molgora (MB)
Italy

Pepperl+Fuchs Manufacturing, Inc.
502 Cane Island Pkwy
Katy TX 77494
United States of America

Pepperl+Fuchs Gulf LLC
Fawazia Industrial Area, Near Khobar Askan
P. O. Box 1248
Al-Khobar 31952
Saudi Arabia

Annex:

Certificate Annex IECEx CML 16.0008X Iss. 7.pdf

Description

Control Stations

The Control Stations are a range of increased safety enclosures fitted with a selection of separately certified components. The Control Stations utilise the following separately certified enclosures:

Control Station	Enclosure	
	Material	**Certification**
FXL***CS	FXLS = stainless steel FXLM = mild steel	CML 17ATEX3023U IECEx CML 17.0013U
GL***CS	Antistatic glass-fibre reinforced polyester	SIRA 00ATEX3028U IECEx SIR 06.0105U
GR.CS*	Antistatic glass-fibre reinforced polyester	CML 17ATEX3084U IECEx CML 17.0039U
SR.CS*	Stainless steel/Mild steel	CML 20ATEX3118U IECEx CML 20.0076U
XL***CS	XLS = Stainless steel XLM = Mild Steel	CML 17ATEX3023U IECEx CML 17.0013U

For Control Stations marked only for dust explosive atmospheres, non-Ex certified equipment may be internally fitted according to the rules given in the schedule drawings.

Local Control Units

The Local Control Units utilise the following enclosures:

Local Control Unit	Enclosure	
	Material	**Certification**
L**	LCS = Stainless steel	CML 17ATEX3023U IECEx CML 17.0031U
	LRS = Stainless steel 316 LRR = Stainless steel 304 LRM = Mild steel	CML 20ATEX3118U IECEx CML 20.0076U
	LCP = Antistatic glass-fibre reinforced polyester	Covered under this approval
	LRP = Polyamide	CML 21ATEX31285U IECEx CML 21.0149U

Disconnect Switches

The DIS Switch Disconnectors and SAF Safety Switches utilise separately certified switch modules within GL/GR type GRP enclosures or FXL/XL/SL/SR type steel enclosures to guarantee safe disconnection of machines from the mains power supply during cleaning, maintenance and repair.

All Control Stations and Local Control Units are offered in a range of sizes and may be fitted with an arrangement of separately certified control components. This includes push buttons, illuminated push buttons, LED modules, pilot lights, switch actuators, switch modules, potentiometer modules, disconnect

switch modules, meter modules, panel meters' enclosure windows, terminals, isolation terminals, buzzers and fibre optic splice trays.

When fitted with suitably rated accessories, the Control Stations, Local Control Units and Disconnect Switches are rated IP66. Only items from the Pepperl+Fuchs SE approved range shall be fitted.

Before installation, the maximum power dissipation must be calculated in accordance with EN 60079-7, Annex E.2.

The enclosures may be flanged to each other to create one larger enclosure with an allowed dissipation corresponding to the new larger dimensions and they may be flanged to separately certified Ex d enclosures. A method for calculating the required reduction in allowed dissipated power to account for any heating from the neighbouring Ex d enclosures is described in this certificate.

The total Maximum Dissipation Power values have been assessed based on internal temperature rises of 5 K, 10 K and 15 K to account for the limiting temperatures of the different devices that may be installed; the Maximum Dissipation Power values assigned for each enclosure size shall not be exceeded and are as follows:

XL*CS and FXL***CS Control Stations (XL and FXL enclosures)**

XL and FXL Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
1 (229/152/145)	2.3	T6/T80°C	T5/T95°C	4.6	T6/T80°C	T4/T130°C	6.9	T5/T95°C	T4/T130°C
2 (260/260/165)	3.8	T6/T80°C	T5/T95°C	7.6	T6/T80°C	T4/T130°C	11.3	T5/T95°C	T4/T130°C
2D (260/260/215)	4.6	T6/T80°C	T5/T95°C	9.2	T6/T80°C	T4/T130°C	13.8	T5/T95°C	T4/T130°C
3 (306/306/165)	4.7	T6/T80°C	T5/T95°C	9.3	T6/T80°C	T4/T130°C	14.0	T5/T95°C	T4/T130°C
3D (306/306/215)	5.6	T6/T80°C	T5/T95°C	11.3	T6/T80°C	T4/T130°C	16.9	T5/T95°C	T4/T130°C
4 (380/260/165)	4.9	T6/T80°C	T5/T95°C	9.8	T6/T80°C	T4/T130°C	14.7	T5/T95°C	T4/T130°C
4D (380/260/215)	5.9	T6/T80°C	T5/T95°C	11.8	T6/T80°C	T4/T130°C	17.7	T5/T95°C	T4/T130°C
5 (458/382/165)	7.1	T6/T80°C	T5/T95°C	14.3	T6/T80°C	T4/T130°C	21.4	T5/T95°C	T4/T130°C
5D (458/382/215)	8.5	T6/T80°C	T5/T95°C	16.9	T6/T80°C	T4/T130°C	25.4	T5/T95°C	T4/T130°C
6 (480/480/165)	8.6	T6/T80°C	T5/T95°C	17.3	T6/T80°C	T4/T130°C	25.9	T5/T95°C	T4/T130°C
6D (480/480/215)	10.1	T6/T80°C	T5/T95°C	20.3	T6/T80°C	T4/T130°C	30.5	T5/T95°C	T4/T130°C
7 (500/350/165)	7.2	T6/T80°C	T5/T95°C	14.4	T6/T80°C	T4/T130°C	21.6	T5/T95°C	T4/T130°C
7D (500/350/215)	8.5	T6/T80°C	T5/T95°C	17.1	T6/T80°C	T4/T130°C	25.6	T5/T95°C	T4/T130°C
8 (620/450/165)	10.0	T6/T80°C	T5/T95°C	20.0	T6/T80°C	T4/T130°C	29.9	T5/T95°C	T4/T130°C

XL and FXL Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
8D (620/450/215)	11.7	T6/T80°C	T5/T95°C	23.3	T6/T80°C	T4/T130°C	35.0	T5/T95°C	T4/T130°C
9 (762/508/165)	12.7	T6/T80°C	T5/T95°C	25.5	T6/T80°C	T4/T130°C	38.3	T5/T95°C	T4/T130°C
9D (762/508/215)	14.7	T6/T80°C	T5/T95°C	29.5	T6/T80°C	T4/T130°C	44.2	T5/T95°C	T4/T130°C
10 (914/610/215)	19.1	T6/T80°C	T5/T95°C	38.3	T6/T80°C	T4/T130°C	57.4	T5/T95°C	T4/T130°C
10D (914/610/315)	24.0	T6/T80°C	T5/T95°C	47.9	T6/T80°C	T4/T130°C	71.9	T5/T95°C	T4/T130°C
11 (1177/777/225)	28.3	T6	T5	56.6	T6	T4	85.0	T5	T4
11D (1177/777/315)	33.9	T6	T5	67.7	T6	T4	101.6	T5	T4

SR.CS* Control Stations and LR* Local Control Units

SR Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
LRS* (10/11/09)	0.7	T6/T80°C	T5/T95°C	1.4	T6/T80°C	T4/T130°C	2.2	T5/T95°C	T4/T130°C
LRS* (14/11/09)	0.9	T6/T80°C	T5/T95°C	1.8	T6/T80°C	T4/T130°C	2.7	T5/T95°C	T4/T130°C
LRS* (18/11/09)	1.1	T6/T80°C	T5/T95°C	2.2	T6/T80°C	T4/T130°C	3.2	T5/T95°C	T4/T130°C
LRS* (22/11/09)	1.3	T6/T80°C	T5/T95°C	2.5	T6/T80°C	T4/T130°C	3.8	T5/T95°C	T4/T130°C
SRS* (15/15/09)	1.2	T6/T80°C	T5/T95°C	2.4	T6/T80°C	T4/T130°C	3.6	T5/T95°C	T4/T130°C
SRS* (15/19/09)	1.4	T6/T80°C	T5/T95°C	2.8	T6/T80°C	T4/T130°C	4.2	T5/T95°C	T4/T130°C
SRS* (19/19/10)	1.8	T6/T80°C	T5/T95°C	3.5	T6/T80°C	T4/T130°C	5.3	T5/T95°C	T4/T130°C
SRM* (26/26/09)	2.5	T6/T80°C	T5/T95°C	5.0	T6/T80°C	T4/T130°C	7.5	T5/T95°C	T4/T130°C
SRM* (26/26/16)	3.7	T6/T80°C	T5/T95°C	7.4	T6/T80°C	T4/T130°C	11.1	T5/T95°C	T4/T130°C
SRM* (26/26/22)	4.7	T6/T80°C	T5/T95°C	9.4	T6/T80°C	T4/T130°C	14.0	T5/T95°C	T4/T130°C
SRM* (23/30/16)	3.8	T6/T80°C	T5/T95°C	7.5	T6/T80°C	T4/T130°C	11.3	T5/T95°C	T4/T130°C
SRM* (19/38/16)	4.0	T6/T80°C	T5/T95°C	8.0	T6/T80°C	T4/T130°C	12.1	T5/T95°C	T4/T130°C
SRM* (31/31/09)	3.7	T6/T80°C	T5/T95°C	6.4	T6/T80°C	T4/T130°C	9.7	T5/T95°C	T4/T130°C

SR Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
SRM* (31/31/16)	4.6	T6/T80°C	T5/T95°C	9.3	T6/T80°C	T4/T130°C	13.9	T5/T95°C	T4/T130°C
SRM* (31/31/22)	5.8	T6/T80°C	T5/T95°C	11.6	T6/T80°C	T4/T130°C	17.5	T5/T95°C	T4/T130°C
SRM* (38/38/16)	6.1	T6/T80°C	T5/T95°C	12.2	T6/T80°C	T4/T130°C	18.4	T5/T95°C	T4/T130°C
SRM* (38/38/22)	7.6	T6/T80°C	T5/T95°C	15.1	T6/T80°C	T4/T130°C	22.7	T5/T95°C	T4/T130°C
SRM* (38/48/09)	5.2	T6/T80°C	T5/T95°C	10.5	T6/T80°C	T4/T130°C	15.7	T5/T95°C	T4/T130°C
SRM* (38/48/16)	7.2	T6/T80°C	T5/T95°C	14.4	T6/T80°C	T4/T130°C	21.7	T5/T95°C	T4/T130°C
SRM* (38/48/22)	8.9	T6/T80°C	T5/T95°C	17.7	T6/T80°C	T4/T130°C	26.6	T5/T95°C	T4/T130°C
SRL* (48/48/16)	8.5	T6/T80°C	T5/T95°C	17.0	T6/T80°C	T4/T130°C	25.5	T5/T95°C	T4/T130°C
SRL* (48/48/22)	10.3	T6/T80°C	T5/T95°C	20.6	T6/T80°C	T4/T130°C	30.9	T5/T95°C	T4/T130°C
SRL* (40/60/22)	10.7	T6/T80°C	T5/T95°C	21.5	T6/T80°C	T4/T130°C	32.2	T5/T95°C	T4/T130°C
SRL* (38/76/16)	10.3	T6/T80°C	T5/T95°C	20.6	T6/T80°C	T4/T130°C	31.0	T5/T95°C	T4/T130°C
SRL* (48/76/16)	12.0	T6/T80°C	T5/T95°C	24.0	T6/T80°C	T4/T130°C	36.1	T5/T95°C	T4/T130°C
SRL* (48/76/22)	14.4	T6/T80°C	T5/T95°C	28.7	T6/T80°C	T4/T130°C	43.1	T5/T95°C	T4/T130°C
SRL* (60/60/26)	15.5	T6/T80°C	T5/T95°C	31.1	T6/T80°C	T4/T130°C	46.6	T5/T95°C	T4/T130°C
SRX* (90/60/30)	22.7	T6/T80°C	T5/T95°C	45.5	T6/T80°C	T4/T130°C	68.2	T5/T95°C	T4/T130°C
SRX* (80/80/30)	25.3	T6/T80°C	T5/T95°C	50.5	T6/T80°C	T4/T130°C	75.8	T5/T95°C	T4/T130°C
SRX* (100/80/30)	29.7	T6/T80°C	T5/T95°C	59.4	T6/T80°C	T4/T130°C	89.0	T5/T95°C	T4/T130°C
SRX* (130/80/30)	36.3	T6/T80°C	T5/T95°C	72.6	T6/T80°C	T4/T130°C	108.9	T5/T95°C	T4/T130°C
SRX* (120/120/30)	45.5	T6/T80°C	T5/T95°C	90.9	T6/T80°C	T4/T130°C	136.4	T5/T95°C	T4/T130°C

GL***CS Control Stations (GL enclosures)

GL Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
5 (120/120/90)	1.7	T6/T80°C	T5/T95°C	3.5	T6/T80°C	T4/T130°C	5.2	T5/T95°C	T4/T130°C

GL Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
6 (120/220/90)	2.6	T6/T80°C	T5/T95°C	5.3	T6/T80°C	T4/T130°C	7.9	T5/T95°C	T4/T130°C
7 (160/160/91)	2.5	T6/T80°C	T5/T95°C	5.1	T6/T80°C	T4/T130°C	7.6	T5/T95°C	T4/T130°C
8 (160/260/91)	3.6	T6/T80°C	T5/T95°C	7.1	T6/T80°C	T4/T130°C	10.7	T5/T95°C	T4/T130°C
9 (160/360/91)	4.6	T6/T80°C	T5/T95°C	9.2	T6/T80°C	T4/T130°C	13.8	T5/T95°C	T4/T130°C
10 (160/560/91)	6.6	T6/T80°C	T5/T95°C	13.3	T6/T80°C	T4/T130°C	19.9	T5/T95°C	T4/T130°C
11 (250/255/120)	5.6	T6/T80°C	T5/T95°C	11.1	T6/T80°C	T4/T130°C	16.7	T5/T95°C	T4/T130°C
11D (250/255/165)	6.9	T6/T80°C	T5/T95°C	13.9	T6/T80°C	T4/T130°C	20.8	T5/T95°C	T4/T130°C
12 (250/400/120)	7.7	T6/T80°C	T5/T95°C	15.4	T6/T80°C	T4/T130°C	23.1	T5/T95°C	T4/T130°C
13 (405/400/120)	10.7	T6/T80°C	T5/T95°C	21.4	T6/T80°C	T4/T130°C	32.1	T5/T95°C	T4/T130°C
14 (405/400/165)	12.9	T6/T80°C	T5/T95°C	25.8	T6/T80°C	T4/T130°C	38.7	T5/T95°C	T4/T130°C
14D (405/400/200)	14.6	T6/T80°C	T5/T95°C	29.2	T6/T80°C	T4/T130°C	43.8	T5/T95°C	T4/T130°C

GR.CS* Control Stations (GR enclosures)

GR.CS* Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
GR.10.10.07* (100/100/65)	1.1	T6/T80°C	T5/T95°C	2.3	T6/T80°C	T4/T130°C	3.4	T5/T95°C	T4/T130°C
GR.13.13.09* (130/130/85)	1.9	T6/T80°C	T5/T95°C	3.9	T6/T80°C	T4/T130°C	5.8	T5/T95°C	T4/T130°C
GR.13.18.09* (130/180/91.5)	2.5	T6/T80°C	T5/T95°C	5.0	T6/T80°C	T4/T130°C	7.6	T5/T95°C	T4/T130°C
GR.18.18.10* (180/180/104)	3.4	T6/T80°C	T5/T95°C	6.8	T6/T80°C	T4/T130°C	10.1	T5/T95°C	T4/T130°C
GR.18.24.10* (180/240/104)	4.1	T6/T80°C	T5/T95°C	8.2	T6/T80°C	T4/T130°C	12.3	T5/T95°C	T4/T130°C
GR.18.36.10* (180/360/104)	5.6	T6/T80°C	T5/T95°C	11.2	T6/T80°C	T4/T130°C	16.7	T5/T95°C	T4/T130°C
GR.18.36.17* (180/360/166.5)	7.7	T6/T80°C	T5/T95°C	15.4	T6/T80°C	T4/T130°C	23.1	T5/T95°C	T4/T130°C
GR.36.36.10* (360/360/104)	8.8	T6/T80°C	T5/T95°C	17.6	T6/T80°C	T4/T130°C	26.4	T5/T95°C	T4/T130°C
GR.36.36.17* (360/360/166.5)	11.6	T6/T80°C	T5/T95°C	23.3	T6/T80°C	T4/T130°C	34.9	T5/T95°C	T4/T130°C

GR.CS* Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
GR.36.36.24* (360/360/241.5)	15	T6/T80°C	T5/T95°C	30.1	T6/T80°C	T4/T130°C	45.1	T5/T95°C	T4/T130°C
GR.48.60.24* (480/600/241.5)	25.5	T6/T80°C	T5/T95°C	51.0	T6/T80°C	T4/T130°C	76.5	T5/T95°C	T4/T130°C
GR.36.72.17* (360/720/166.5)	19.5	T6/T80°C	T5/T95°C	39.0	T6/T80°C	T4/T130°C	58.5	T5/T95°C	T4/T130°C
GR.36.72.24* (360/720/241.5)	24.6	T6/T80°C	T5/T95°C	49.2	T6/T80°C	T4/T130°C	73.8	T5/T95°C	T4/T130°C

LCS Local Control Unit

LCS Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
LCS1 (96/110/84)	0.7	T6/T80°C	T5/T95°C	1.4	T6/T80°C	T4/T130°C	2.1	T5/T95°C	T4/T130°C
LCS2 / 7 (136/110/84)	0.9	T6/T80°C	T5/T95°C	1.8	T6/T80°C	T4/T130°C	2.7	T5/T95°C	T4/T130°C
LCS3 / 8 (216/110/84)	1.2	T6/T80°C	T5/T95°C	2.5	T6/T80°C	T4/T130°C	3.7	T5/T95°C	T4/T130°C
LCS4 / 9 (216/110/84)	1.2	T6/T80°C	T5/T95°C	2.5	T6/T80°C	T4/T130°C	3.7	T5/T95°C	T4/T130°C

LCP Local Control Unit

LCP Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
LCP1 (92/98/100)	1.4	T6/T80°C	T5/T95°C	2.8	T6/T80°C	T4/T130°C	4.3	T5/T95°C	T4/T130°C
LCP2 / 7 (202/98/100)	2.4	T6/T80°C	T5/T95°C	4.8	T6/T80°C	T4/T130°C	7.2	T5/T95°C	T4/T130°C
LCP3 / 8 (202/98/100)	2.4	T6/T80°C	T5/T95°C	4.8	T6/T80°C	T4/T130°C	7.2	T5/T95°C	T4/T130°C
LCP4 / 9 (202/98/100)	2.4	T6/T80°C	T5/T95°C	4.8	T6/T80°C	T4/T130°C	7.2	T5/T95°C	T4/T130°C

LRP Local Control Unit

LRP Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
LRP1 (90/88/84)	0.9	T6/T80°C	T5/T95°C	1.8	T6/T80°C	T4/T130°C	2.7	T5/T95°C	T4/T130°C
LRP2 (132/88/84)	1.1	T6/T80°C	T5/T95°C	2.3	T6/T80°C	T4/T130°C	3.4	T5/T95°C	T4/T130°C
LRP2L (160/100/84)	1.4	T6/T80°C	T5/T95°C	2.8	T6/T80°C	T4/T130°C	4.2	T5/T95°C	T4/T130°C
LRP3 (176/88/84)	1.4	T6/T80°C	T5/T95°C	2.8	T6/T80°C	T4/T130°C	4.2	T5/T95°C	T4/T130°C
LRP5L (260/100/84)	2	T6/T80°C	T5/T95°C	4.1	T6/T80°C	T4/T130°C	6.1	T5/T95°C	T4/T130°C

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

ii. The manufacturer shall fit only the certified Ex parts listed in 16-0985SR-04 (sheets 1 to 18) in accordance with the certification documentation and the manufacturer's instructions. All Special Conditions of Certification/ Special Conditions for Safe Use/Schedule of Limitations must be satisfied.

iii. When the use of alternate Ex parts are permitted, they must be to the latest standard and installed in accordance with the certified scheduled drawings, applicable ratings and ambient and service temperature ranges, and, all Special Conditions of Certification/Special Conditions for Safe Use/ Schedule of Limitations.

iv. The power rating marking on the label will be allocated in accordance with the table detailed in the description on this certificate. The total dissipated power for each enclosure shall be calculated in accordance with EN IEC/IEC 60079-7 Annex E, and the methods detailed in the Schedule Drawings. It shall not exceed the maximum power rating defined in this certification. Additionally, the units shall be marked with the maximum voltage and current as limited by the devices fitted.

v. The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the Special Conditions of Certification/Special Conditions for Safe Use.

The manufacturer must provide the end user the operation and maintenance instructions for all Ex parts that are installed.

vi. All non-intrinsically safe circuits must be subjected to a dielectric strength test in accordance with EN IEC/IEC 60079-7 clause 6.1. Alternatively, a test shall be carried out at 1.2 times the test voltage but maintained for at least 100 ms.

vii. Each intrinsically safe circuit must be subjected to a dielectric strength test in accordance with EN/IEC 60079-11 clause 6.3.13.

viii. Tapped or clearance hole entries may be provided through the side walls or the rear of the enclosures, as permitted by the individual enclosure certification, for the use of suitably certified, Ex eb IIC Gb/Ex tb IIIC Db (minimum) entry devices suitable for range as marked.

ix. The warning label on drawing 16-0985SR-04 sheet 14 must be installed when:

- The enclosure is painted or has labels fitted that do not meet the requirements of EN IEC/IEC 600079-0 clause 7.4.1.
- Type CFP.H Handles are fitted.
- Type CFP.WR or CFP.WC Inspection windows are fitted.

x. The lower ambient temperature of the equipment must be limited by the enclosure type and components fitted.

xi. Products shall only be manufactured at production sites that have a Quality Assurance Notification that covers all Protection Concepts being incorporated.

xii. Enclosure Types XL/FXL*11, XL/FXL*11D or XL/FXL*11S are limited to IP54 and are not permitted for use in dust applications. The marking shall reflect this.

xiii. When enclosures are fitted with flange adaptors as permitted by component certificate CML 17ATEX3023U/IECEx CML 17.0013U, they must be supplied with installation instructions DOCT-5152.

xiv. The Ex ib control devices and indicator lights (certificate no. TUV 08ATEX7685U) are only permitted for ATEX and installed in the LCS range, FXL, SR range or XL range.

xv. The marking shall include the symbol ‘mb’ where previously certified parts include encapsulation as a protection concept (parts covered under certificate CML 16ATEX3339U/IECEx CML 16.0114U).

xvi. Where possible parts shall be installed in the enclosures in such a way as to evenly dissipate the heat.

xvii. Where multiple enclosures are mounted together, instructions described in the manufacturer’s drawings shall be followed.

Specific Conditions of Use

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

i. The user/installer shall install the range of Control Stations and Local Control Units and shall comply with any restrictions or special conditions for safe use that are applicable to the certified equipment or components that are installed in the enclosures.

ii. Equipment fitted with warning 'POTENTIAL ELECTROSTATIC CHARGING HAZARD' shall only be cleaned with a damp cloth to prevent the risk of electrostatic discharge.

iii. Repair of any flameproof joints must be made in compliance with the structural specification provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN IEC/IEC 60079-1.

iv. Any connected optical bundles must be supported within the equipment using supplied mounting clips to prevent strain on the individual fibres as they enter the component.

v. When the equipment is fitted with a flange adaptor, it must be installed in line with manufacturer's instructions DOCT-5152.

vi. When Ex ia panel meters (certificate nos. ITS 14ATEX28077X/IECEx ITS 14.0048X and ITS 15ATEX28365X/ IECEx ITS 15.0056X) are fitted, they must be supplied by an appropriately rated Zener barrier or galvanic isolator located in a safe area.

vii. When Ex ib illuminated push button or pilot lights (certificate no. TUV 08ATEX7685U) are fitted, the enclosures shall only be fitted in low impact risk areas and additional protection from permanent UV exposure is required.

viii. When Ex ib push button, switch selector or key operated switch selectors (certificate no. TUV 08ATEX7685U) are fitted, the enclosures shall only be fitted in low impact risk areas.

ix. When non-light transmitting CFP.* series operators (certificate no. CML 16ATEX3339U/IECEx CML 16.0114U) are fitted, the enclosures shall only be fitted in low impact risk areas.

x. The torque applied to the fasteners on enclosure Types SR* shall be at least 3 Nm.

xi. For the dust only applications, internal un-certified electrical parts shall not be mounted directly to the walls of the enclosure and where multiple parts are installed, they shall be evenly spaced.

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Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEx SIR 06.0105U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 4 IEC 61241-0:2004 IEC 61241-1:2004	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEx CML 17.0039U	IEC 60079-0 Ed 6 IEC 60079-7 Ed 5 IEC 60079-31 Ed 2	
IECEx CML 17.0013U	IEC 60079-0 Ed 6 IEC 60079-7 Ed 5 IEC 60079-31 Ed 2	
IECEx BKI 08.0008U	IEC 60079-0 Ed 4 IEC 60079-1 Ed 5 IEC 60079-7 Ed 3	
IECEx BAS 14.0169U	IEC 60079-0 Ed 6 IEC 60079-28 Ed 1	
IECEx CML 16.0114U	IEC 60079-0 Ed 6 IEC 60079-1 Ed 6 IEC 60079-7 Ed 4 IEC 60079-11 Ed 6 IEC 60079-18 Ed 3 IEC 60079-26 Ed 2 IEC 60079-31 Ed 2	
IECEx EUT 16.0011U	IEC 60079-0 Ed 6 IEC 60079-1 Ed 7 IEC 60079-7 Ed 5 IEC 60079-11 Ed 6 IEC 60079-18 Ed 4 IEC 60079-31 Ed 2	
IECEx SEV 13.0012 U	IEC 60079-0 Ed 7 IEC 60079-7 Ed 5	
IECEx KEM 07.0035 U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 4	
IECEx KEM 07.0015 U	IEC 60079-0 Ed 6 IEC 60079-7 Ed 4	
IECEx KEM 07.0007 U	IEC 60079-0 Ed 6 IEC 60079-7 Ed 4	
IECEx KEM 07.0010 U	IEC 60079-0 Ed 6 IEC 60079-7 Ed 4	
IECEx PTB 08.0039U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 4	
IECEX SIR 05.0038U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	

IECEX ULD 05.0009U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX ULD 05.0008U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX KEM 07.0053U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX KEM 06.0014U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX SIR 05.0041U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX SIR 05.0032U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX SIR 05.0036U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	
IECEX SIR 05.0035U	IEC 60079-0 Ed 4 IEC 60079-7 Ed 3	

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