

**UK Type Examination Certificate CML 22UKEX2550X Issue 1****United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Control Stations, Local Control Units and Disconnect Switches**
- 3 Manufacturer **Pepperl+Fuchs SE**
- 4 Address **Lilienthalstrasse 200  
68307 Mannheim  
Germany**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-7:2015/A1:2018

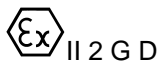
EN 60079-11:2012

EN 60079-18:2015+A1:2017

EN 60079-28:2015

IEC 60079-31:2022

- 10 The equipment shall be marked with the following:



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\* Db

\* T-class, assigned maximum surface temperature and ambient temperature rating are dependent on the enclosure, the equipment fitted and the power dissipation.

Note: Protection concept symbols and ambient range applied depend on the parts installed. Marking options are defined in the Description and the manufacturer's documents. The marking shall include the symbol 'mb' where previously certified parts include encapsulation as a protection concept; refer to conditions of manufacture.





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## 11 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.



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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
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



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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
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
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



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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* (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
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



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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
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.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



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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.36.72.17* (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



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## 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

### Variation 1

This variation introduces the following modifications:

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

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 Sep 2022	R14112CX/00	Prime Certificate issued.
1	03 Nov 2023	R16151A/00	Issue of variation 1

Note: Drawings that describe the equipment are listed in the Annex.

## 13 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





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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.



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

#### **14 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.

## Certificate Annex

**Certificate Number** CML 22UKEX2550X  
**Equipment** Control Stations, Local Control Units and Disconnect Switches  
**Manufacturer** Pepperl+Fuchs SE



The following documents describe the equipment defined in this certificate:

### Issue 0

For drawings describing the equipment, refer to attached certificate CML 16ATEX3009X. In addition to the drawings listed on CML 16ATEX3009X, the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
16-1555CM-10	1 to 2	0	28 Sep 2022	Additional Marking Requirements for UKCA

### Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
16-1649CM-00	1 of 3	00	31 Oct 2023	Ex d/e flanged panel thermal calculation
16-1649CM-00	2 of 3	00	31 Oct 2023	Ex e flanged panel area calculation
16-1649CM-00	3 of 3	00	31 Oct 2023	Ex d/e flanged panel thermal calculation.