



Type Examination Certificate

CML 17ATEX3084U Issue 4

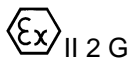
- 1 Components intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **GR Ex e enclosures**
- 3 Manufacturer **Pepperl+Fuchs SE**
- 4 Address **Lilienthalstrasse 200
68307 Mannheim
Germany**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, certifies that this component 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 Annex II of Directive 2014/34/EU.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component and are separately certified.
- 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 IEC 60079-7:2015+A1:2018

IEC 60079-31:2022

- 10 The equipment shall be marked with the following:

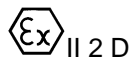


II 2 G

Ex eb IIC Gb

IP 66

Ts= -60 °C to + 85°C



II 2 D

Ex tb IIIC Db

IP 66





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11 Description

The GR Ex e enclosures are increased safety and dust protected component approved enclosures that are moulded in anti-static glass fibre reinforced polyester with a lid and base. The lid is held in place with stainless steel screws and has a rebate in which the gasket is held. The base has a lip that sits approximately central to the gasket and compresses it when the lid is fastened down. The enclosures may be mounted in any orientation.

The enclosures are available in a range of standard sizes shown in the table below, intermediate sizes are also permitted. Hinges may be fitted as an option as may an earth continuity plate and internal/external earth stud.

Type code	Length	Width	Depth
GR.10.10.07*	100 mm	100 mm	65 mm
GR.13.13.09*	130 mm	130 mm	85 mm
GR.13.18.09*	130 mm	180 mm	91.5 mm
GR.18.18.10*	180 mm	180 mm	104 mm
GR.18.24.10*	180 mm	240 mm	104 mm
GR.18.36.10*	180 mm	360 mm	104 mm
GR.18.36.17*	180 mm	360 mm	166.5 mm
GR.36.36.10*	360 mm	360 mm	104 mm
GR.36.36.17*	360 mm	360 mm	166.5 mm
GR.36.36.24*	360 mm	360 mm	241.5 mm
GR.48.60.24*	480 mm	600 mm	241.5 mm
GR.36.72.17*	360 mm	720 mm	166.5 mm
GR.36.72.24*	360 mm	720 mm	241.5 mm

Variation 1

This variation introduced the following modification:

- i. To update the certificate to the latest editions of the standards.

Variation 2

This variation introduced the following modification:

- i. To permit alternative gasket materials

Variation 3

This variation introduced the following modification:

- i. To assess the alternative flange sealing arrangements
- ii. To update to the latest version of the standard: IEC 60079-31:2022 Ed 3.0
- iii. Update to schedule drawings.



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	07 Jul 2017	R934A/00	Issue of Prime Certificate
1	07 Mar 2019	R12226A/00	Transfer of Certificate to CML BV
2	09 Sep 2021	R14112AL/00	Introduction of Variation 1
3	30 Nov 2022	R15625A/00	Introduction of Variation 2
4	15 Aug 2023	R15823B/00	Introduction of Variation 3

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

13 Conditions of Manufacture

None.

14 Schedule of Limitations

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

- i. The service temperature range of the enclosure and all gasket materials is -60°C to 85°C

Certificate Annex

Certificate Number CML 17ATEX3084U
Equipment GR Ex e enclosures
Manufacturer Pepperl+Fuchs SE



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
16-1369CM-10	1 of 1	--	07 Jul 2017	GR enclosure certification label
16-1369CM-04	1 of 5	--	07 Jul 2017	GR enclosure general assembly & sizes
16-1369CM-04	2 of 5	--	07 Jul 2017	GR enclosure cable entry capacity
16-1369CM-04	3 of 5	--	07 Jul 2017	GR enclosure sealing arrangement
16-1369CM-04	4 of 5	--	07 Jul 2017	GR enclosure earthing arrangement
16-1369CM-04	5 of 5	--	07 Jul 2017	GR enclosure hinge arrangement

Issue 1

None.

Issue 2

None.

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
16-1369CM-04A	1 of 5	A	30 Nov 2022	GR enclosure general assembly & sizes
16-1369CM-04A	2 of 5	A	30 Nov 2022	GR enclosure cable entry capacity
16-1369CM-04A	3 of 5	A	30 Nov 2022	GR enclosure sealing arrangement
16-1369CM-04A	4 of 5	A	30 Nov 2022	GR enclosure earthing arrangement
16-1369CM-04A	5 of 5	A	30 Nov 2022	GR enclosure hinge arrangement

Issue 4

Drawing No	Sheets	Rev	Approved date	Title
16-1369CM-04B	1 of 8	B	15 Aug 2023	GR enclosure general assembly & sizes
16-1369CM-04B	2 of 8	B	15 Aug 2023	GR enclosure cable entry capacity
16-1369CM-04B	3 of 8	B	15 Aug 2023	GR enclosure sealing arrangement
16-1369CM-04B	4 of 8	B	15 Aug 2023	GR enclosure earthing arrangement
16-1369CM-04B	5 of 8	B	15 Aug 2023	GR enclosure hinge arrangement
16-1369CM-04B	6 of 8	B	15 Aug 2023	Flexible Flanges Exd-Exe and Exe for GR certificate
16-1369CM-04B	7 of 8	B	15 Aug 2023	Flexible Flanges Exd-Exe and Exe for GR certificate
16-1369CM-04B	8 of 8	B	15 Aug 2023	GR screen & earth terminals & bars

This certificate shall only be copied
in its entirety and without change

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Certificate Annex

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Equipment GR Ex e enclosures
Manufacturer Pepperl+Fuchs SE

