



EU Type Examination Certificate CML 14ATEX3073X Issue 10

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment 07-351*-*********** ComEx Control and Indicating Stations

3 Manufacturer BARTEC GmbH

4 Address Max-Eyth-Straße 16,

97980 Bad Mergentheim,

Germany

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

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

- If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 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 60079-0:2012+A11:2013 EN 60079-7:2015 EN 60079-31:2014

EN 60079-1:2014 EN 60079-11:2012

10 The equipment shall be marked with the following:

⟨£x⟩_{II 2 G D}

⟨£x⟩_{II 2 G D}

Ex db eb IIC T6 Gb Ex db eb ia IIC T6 Gb Ex tb IIIC T80°C Db Ex tb IIIC T80°C Db

R C Marshall

Certification Officer





11 Description

The ComEx are either single, double or triple control and/or indicating display stations.

The three standard thermoplastic enclosures, single (07-3511-* and 07-3514-*), double (07-3512-* and 07-3515-*) and triple (07-3513-* and 07-3516-*) can be combined with various separately certified actuators, switch modules and luminous modules.

The control and display stations may be optionally provided with cable glands and blanking elements, as well as an earthing plate.

Ratings:

Increased safety and Dust types										
Туре	07-3511-	07-3512-	07-3513-							
Rated insulation voltage	690 V	690 V	690 V							
Rated voltage, Max.	400 V	400 V	400 V							
Rated current, Max.	Note: Allowable maximum voltages, currents and ambient may be higher or lower dependant on enclosure size and components fitted, see instructions for specific details									
At Ta 40°C	16 A	16 A	Up to 20 A							
At Ta 60°C	11 A	11 A	Up to 14 A							

Intrinsic safety types								
Туре	07-3514-	07-3515-	07-3516-					
Ui	30 V	30 V	30 V					
li	150 mA	150 mA	150 mA					
Pi	1 W	1 W	1 W					

Series model type reference:

07	-	3	5	1	*	ı	*	*	*	*	*	*	*	*	*	*	*
Α	-	В	O	D	Ε	ı	F	G	Η	I	٦	K	L	М	Ν	0	Ρ

Type reference Prefix	Code for	Variation Prefix	Description
Α	Basic designation	07	Common code number
B, C	Product sector	35	Code combination "e"
D	Enclosure material	1	Plastic material
E	Enclosure size	1	88 mm
		2	130 mm
		3	176 mm

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Type reference	Code for	Variation Prefix	Description
Prefix			
		4	88 mm – Ex i
		5	130 mm – Ex i
		6	176 mm – Ex i
F	Cable gland, top of	0	Without
	enclosure (Side B)	1	One, M20, plastic
		2	One, M25, plastic
		3	Two, M20, plastic
		4	One, M20, plastic
			one, M20, blanking element
		5	One, M20, metal
		6	One, M25, metal
		7	Two, M20, metal
		8	One, M20, metal
			one, M20, blanking element
		9	Special:
			1 x ≤ M32 or 2 x ≤ M20 and 1 x ≤ M16 or
			$2 \times 10^{-2} \times $
G	Cable gland, bottom	0	Without
	of enclosure (Side A)	1	One, M20, plastic
	, ,	2	One, M25, plastic
		3	Two, M20, plastic
		4	One, M20, plastic
			one, M20, blanking element
		5	One, M20, metal
		6	One, M25, metal
		7	Two, M20, metal
		8	One, M20, metal
			one, M20, blanking element
		9	Special:
			$1 \times 10^{-5} \text{ M} = 10^{-5} $
			$2 \times M25 \text{ or } 3 \times M16$
H - P	Applications		th separately certified operators and modules
	H - J		h all enclosure type/sizes
	K - M	For use wit	
			7-3513, 07-3515 and
			pe/sizes only
	N - P	For use wit	
	0		d 07-3516 type/sizes only
H, I	Operators	00	Without operator
K, L		B1	Blanking plug (05-0003-0019/****)
N, O		D*	Potentiometer (05-0003-0076/****)
		E*	Lock types
		1.1+	(05-0003-0077/**** to 05-0003-0080/****)
1		H*	Position Selector Types
		1/*	(05-0003-0020/**** to 05-0003-0021/****)
1		K*	Lock type (05-0003-0012/****)
1		L*	Lamp module types
		NI*	(05-0003-0013/**** to 05-0003-0017/****)
		N*	Emergency button type (05-0003-0008/****)





Type reference Prefix	Code for	Variation Prefix	Description
		P*	Push button types (05-0003-0007/****, 05-0003-0018/****, 05-0003-0075/**** and 05-0003-0082/****)
		S*	Position Selector types (05-0003-0009/****, 05-0003-0011/****, 05-0003-0071/**** and 05-0003-0073/****)
		T*	Laminated Push Button types (05-0003-0065/**** to 05-0003-0069/****)
J, M, P	Modules	1 2 4	Switchmodule 2 NC Switchmodule 2 NO Switchmodule 1 NC / 1NO or Control switching unit 1 kΩ (dependant on operator type)
		5 6 7	Control switching unit 2,2 k Ω Control switching unit 4.7 k Ω or Terminal block Control switching unit 10 k Ω
		R G Y	Lampmodule red Lampmodule green Lampmodule yellow
		W B	Lampmodule white Lampmodule blue or Illuminated push button module 1 NO (depends on operator type) Illuminated push button module 1 NC
Or K – M N - P	Measuring Devices	MM*	Measuring device separately certified with different max. current
Or H - J	Operator (Control Switch)	G**	Position Selector type (05-0003-0062/****)
+ K - M	Control switch module	A** B** C** etc	Control switch module
Or H, I (K, L)	Operators	See above	
+ K – M (N - P)	Switch module, 4- pole	PV**	Switch Module, 4-pole
	number without influend	ce on the mod	del reference code

Variation 1

This variation introduced the following modification:

i. To allow an alternative seal material to be used





Variation 2

This variation introduced the following modifications:

- i. To update the certificate reference to the 2014/34/EU Directive.
- ii. To update certification drawings to reflect changes in enclosure manufacturing.

Variation 3

This variation introduced the following modifications:

- i. To update the certificate to the latest editions of the standards.
- ii. Cover changes to enclosure fabrication.

Variation 4

This variation introduced the following modification:

i. To update drawings and manufacturing details for the locking device.

Variation 5

This variation introduced the following modifications:

- i. The introduction of an alternative enclosure profile.
- ii. Clarification of the cable gland size options in the series type reference table on the certificate.

Variation 6

This variation introduced the following modifications:

- i. The introduction of an alternative non-metallic sealing material between enclosures.
- ii. The introduction of an alternative metallic plug between enclosures.

Variation 7

This variation introduced the following modification:

The introduction of an alternative non-metallic sealing material between enclosures.

Variation 8

This variation introduced the following modification:

 To update the certificate to include the 4-pole switch module covered under certificate numbers IECEx CML 17.0045U and CML 17ATEX1105U





12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Oct 2014	R122A/00	Issue of Prime Certificate
1	09 Feb 2015	R450A/00	Introduction of Variation 1
2	06 Aug 2015	N/A	To correct a typographic error and clarify the approval standards
3	3 Nov 2016	R1708A/00	Introduction of Variation 2
4	12 Dec 2016	R1545A/01	Introduction of Variation 3
5	09 Mar 2017	R1995A/00	Introduction of Variation 4
6	29 Aug 2017	R11322A/00	Introduction of Variation 5
7	25 Jan 2018	R11363A/00	Introduction of Variation 6
		R11363A/00	R11363B/00 supplements R11363A/00 in the
8	13 Mar 2018	R11363B/00	introduction of variation 7.
9	12 Dec 2018	R12059A/00	Transfer from CML UK to CML BV Certificate
10	05 Aug 2019	R12530A/00	Introduction of Variation 8

Note: Drawings that describe the equipment or component 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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate. A copy of the certification for the components fitted shall be provided to the end user.
- ii. When limited components are provided for applications other than the Ex db eb ia IIC T6 Gb versions, the user shall be provided with the appropriate limitation information for these components.

14 Specific Conditions of Use (Special Conditions)

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

i. When equipment is marked 'Ex db eb ia' the circuits are separate intrinsically safe circuits and shall be used with appropriate barriers certified for 'Ex ia IIC' outputs.

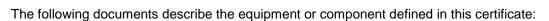
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Certificate Annex

Certificate Number CML 14ATEX3073X

Equipment 07-351*-************ ComEx Control and Indicating Stations

Manufacturer Bartec GmbH



Issue 0

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650004	1 of 1	-	06 Oct 2014	Control and Indicating Station - Labels
01-3511-650003	1 of 5	-	06 Oct 2014	Control and Indicating Station – General Arrangement
01-3511-650003-HLP	1 to 3	-	06 Oct 2014	Control and Indicating Station – Materials and Component Details
01-3511-650003-BOM	1 to 4	ı	06 Oct 2014	Control and Indicating Station – Bill of Materials
01-3511-650002	1 of 1	-	06 Oct 2014	Control and Indicating Station – Locking Device
01-3511-650002-BOM	1 of 1	ı	06 Oct 2014	Control and Indicating Station – Locking Device Bill of Materials
01-3511-650001	1 of 1	-	06 Oct 2014	Control and Indicating Station – Gland Location

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650003-HLP	1 to 3	Α	09 Feb 2015	Control and Indicating Station – Materials and Component Details
01-3511-650003-BOM	1 to 4	Α	09 Feb 2015	Control and Indicating Station – Bill of Materials

Issue 2

None.

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650003	1 to 5	Α	3/11/2016	Control and indicating station Type 07-351/

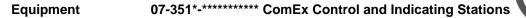
Issue 4

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650004	1	Α	28 Nov 2016	Control and indicating station Marking 07-351/

Issue 5

Certificate Annex

Certificate Number CML 14ATEX3073X



Manufacturer Bartec GmbH



Issue 6

Drawing No	Sheets	Rev	Approved date	Title
01-3511-610003	1 to 5	В	29 Aug 2017	Control and indicating station Typ 07-351/ Ex de IIC T6
01-3511-610003	1 of 1	D	29 Aug 2017	Control and indicating station Typ 07-351/
01-3511-650004	1 of 1	В	29 Aug 2017	Control and indicating station Typ 07-351/

Issue 7

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650003-BOM	1 to 4	В	25 Jan 2018	Befehls- und Anzeigegerät Control and Indicating device Typ 07-351*- ****/****/*****

Issue 8

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650003-BOM	1 to 4	С	13 Mar 2017	Befehls- und Anzeigegerät Control and Indicating device Typ 07-351*-
				****/****

Issue 9

None.

Issue 10

Drawing No	Sheets	Rev	Approved date	Title
01-3511-650003	1 to 5	D	05 Aug 2019	Befehls- und Anzeigegerät Control and Indicating station
				Typ 07-351*-****/**** Ex de IIC T6



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 14.0029X Issue No: 8 Certificate history:

 Issue No. 8 (2019-08-05)

 Status:
 Current

 Issue No. 7 (2018-03-13)

Page 1 of 5
Date of Issue: 2019-08-05

Applicant: BARTEC GmbH Issue No. 3 (2016-12-12)

Max-Eyth-Staße 16 Issue No. 2 (2015-08-06)

97980 Bad Mergentheim Issue No. 1 (2015-02-09) **Germany** Issue No. 0 (2014-10-08)

Optional accessory:

Type of Protection: Flameproof "db", Increased Safety "eb", Intrinsic Safety "ib", Dust Ignition "tb"

Marking:

Ex db eb IIC T6 Gb or Ex db eb ia IIC T6 Gb

Ex tb IIIC T80°C Db -55°C ≤Ta ≤ +60°C

Approved for issue on behalf of the IECEx R C Marshall

Certification Body:

Position: Certification Officer

Signature:

(for printed version)

Date: 2019-08-05

- 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:

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





Issue No. 6 (2018-01-25)

Issue No. 5 (2017-08-29) Issue No. 4 (2017-03-09)



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Certificate No: IECEx CML 14.0029X Issue No: 8

Date of Issue: 2019-08-05

Manufacturer: BARTEC GmbH

Max-Eyth-Staße 16 97980 Bad Mergentheim

Germany

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 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-1: 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

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

Edition:6.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

IEC 60079-7: 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

Edition:5.0

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

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/ExTR14.0016/00
 GB/CML/ExTR15.0008/00
 GB/CML/ExTR15.0057/00

 GB/CML/ExTR16.0177/00
 GB/CML/ExTR17.0033/00
 GB/CML/ExTR17.0161/00

 GB/CML/ExTR17.0177/00
 GB/CML/ExTR18.0068/00
 GB/CML/ExTR19.0131/00

Quality Assessment Report:

DE/TUN/QAR06.0017/10



Certificate No: IECEx CML 14.0029X Issue N	lo: 8	8
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Date of Issue: **2019-08-05** Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The ComEx are either single, double or triple control and/or indicating display stations.

The three standard thermoplastic enclosures, single (07-3511-* and 07-3514-*), double (07-3512-* and 07-3515-*) and triple (07-3513-* and 07-3516-*) can be combined with various separately certified actuators, switch modules and luminous modules.

The control and display stations may be optionally provided with cable glands and blanking elements, as well as an earthing plate.

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.



Certificate No: IECEx CML 14.0029X Issue No: 8

Date of Issue: 2019-08-05 Page 4 of 5

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

Issue 1

This issue introduced the following change:

i. To allow an alternative sealing material to be used

Issue 2

This issue introduced the following change:

i. To correct a typographic error and clarify the approval standards

Issue 3

This issue introduced the following changes:

- i. To update certification drawings to reflect changes in enclosure manufacturing.
- ii. To update certificate to the latest standard editions.

Issue 4

This issue introduced the following change:

i. To update drawings and manufacturing details for the locking device.

Issue 5

This issue introduced the following changes:

- i. The introduction of an alternative enclosure profile.
- ii. Clarification of the cable gland size options in the series type reference table on the certificate.

Issue 6

This issue introduced the following changes:

- i. The introduction of an alternative non-metallic sealing material between enclosures.
- ii. The introduction of an alternative metallic plug between enclosures.

Issue 7

This issue introduced the following change:

i. The introduction of an alternative non-metallic sealing material between enclosures.

Issue 8

This issue introduced the following change:

i. To update the certificate to include the 4-pole switch module covered under certificate number IECEx CML 17.0045U.

Annex:



Certificate No:	IECEx CML 14.0029X	Issue No: 8
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Date of Issue: 2019-08-05 Page 5 of 5

IECEx CML 14.0029X Iss. 8 Certificate Annex.pdf

Annexe to: IECEx CML 14.0029X Issue 8

Applicant: BARTEC GmbH

Apparatus: 07-351*-********** ComEx Control and

Indicating Stations



Description

The ComEx are either single, double or triple control and/or indicating display stations.

The three standard thermoplastic enclosures, single (07-3511-* and 07-3514-*), double (07-3512-* and 07-3515-*) and triple (07-3513-* and 07-3516-*) can be combined with various separately certified actuators, switch modules and luminous modules.

The control and display stations may be optionally provided with cable glands and blanking elements, as well as an earthing plate.

Ratings:

Increased safety and Dust types								
Туре	07-3511-	07-3512-	07-3513-					
Rated insulation voltage	690 V	690 V	690 V					
Rated voltage, Max.	400 V	400 V	400 V					
Rated current, Max.	Note: Allowable maximum voltages, currents and ambient may be higher or lower dependant on enclosure size and components fitted, see instructions for specific details							
At Ta 40°C	16 A	16 A	Up to 20 A					
At Ta 60°C	11 A	11 A	Up to 14 A					

Intrinsic safety types							
Туре	07-3514-	07-3515-	07-3516-				
Ui	30 V	30 V	30 V				
li	150 mA	150 mA	150 mA				
Pi	1 W	1 W	1 W				
The Ci and Li values are negligible and therefore stated as zero							





Unit 1, Newport Business Park New Port Road Ellesmere Port CH65 4LZ



Series model type reference:

07	-	3	5	1	*	-	*	*	*	*	*	*	*	*	*	*	*
Α		В	C	D	П	1	F	O	Η		ک	K	Г	М	Ζ	0	Р

Type reference Prefix	Code for	Variation Prefix	Description
Α	Basic designation	07	Common code number
B, C	Product sector	35	Code combination "e"
D	Enclosure material	1	Plastic material
E	Enclosure size	1	88 mm
		2	130 mm
		3	176 mm
		4	88 mm – Ex i
		5	130 mm – Ex i
		6	176 mm – Ex i
F	Cable gland, top of	0	Without
	enclosure (Side B)	1	One, M20, plastic
	, ,	2	One, M25, plastic
		3	Two, M20, plastic
		4	One, M20, plastic
		-	one, M20, blanking element
		5	One, M20, metal
		6	One, M25, metal
		7	Two, M20, metal
		8	One, M20, metal
			one, M20, blanking element
		9	Special:
			1 x \leq M32 or 2 x \leq M20 and 1 x \leq M16 or
			$2 \times 4 \times 10^{-2} = 10^{-2} = 10^{-2} \times 10^{-2} = 10^{-2$
G	Cable gland, bottom	0	Without
	of enclosure (Side A)	1	One, M20, plastic
		2	One, M25, plastic
		3	Two, M20, plastic
		4	One, M20, plastic
		'	one, M20, blanking element
		5	One, M20, metal
		6	One, M25, metal
		7	Two, M20, metal
		8	One, M20, metal
			one, M20, blanking element
		9	Special:
			1 x ≤ M32 or 2 x ≤ M20 and 1 x ≤ M16 or
			$2 \times \le M25 \text{ or } 3 \times \le M16$
H - P	Applications	Variante w	ith separately certified operators and modules
11-5	H - J		th all enclosure type/sizes
	11-0	I i di use wii	in all endosule type/sizes



Type reference Prefix	Code for	Variation Prefix	Description
	K - M		h: 7-3513, 07-3515 and pe/sizes only
	N - P	For use wit 07-3513 ar	h: nd 07-3516 type/sizes only
H, I	Operators	00	Without operator
K, L		B1	Blanking plug (05-0003-0019/****)
N, O		D*	Potentiometer (05-0003-0076/****)
		E*	Lock types (05-0003-0077/**** to 05-0003-0080/****)
		H*	Position Selector Types (05-0003-0020/**** to 05-0003-0021/****)
		K*	Lock type (05-0003-0012/****)
		L*	Lamp module types (05-0003-0017/****)
		N*	Emergency button type (05-0003-0008/****)
		P*	Push button types (05-0003-0007/****, 05-0003-0018/****, 05-0003-0075/**** and 05-0003-0082/****)
		S*	Position Selector types (05-0003-0009/****, 05-0003-0011/****, 05-0003-0071/**** and 05-0003-0073/****)
		T*	Laminated Push Button types (05-0003-0065/**** to 05-0003-0069/****)
J, M, P	Modules	1 2 4	Switchmodule 2 NC Switchmodule 2 NO Switchmodule 1 NC / 1NO or Control switching
			unit 1 kΩ (dependant on operator type)
		5 6 7	Control switching unit 2,2 k Ω Control switching unit 4.7 k Ω or Terminal block Control switching unit 10 k Ω
		R G	Lampmodule red Lampmodule green
		Υ	Lampmodule yellow
		W	Lampmodule white
		В	Lampmodule blue or Illuminated push button module 1 NO (depends on operator type)
05	Magazina Davisas	A	Illuminated push button module 1 NC
Or K – M N - P	Measuring Devices	MM*	Measuring device separately certified with different max. current
Or H - J	Operator (Control Switch)	G**	Position Selector type (05-0003-0062/****)
+	Control switch	A**	Control switch module
K - M	module	B**	



Type reference Prefix	Code for	Variation Prefix	Description
		C**	
		etc	
Or H, I (K, L)	Operators	See above	
+ K – M (N - P)	Switch module, 4- pole	PV**	Switch Module, 4-pole
* Counting	number without influence	ce on the mod	del reference code

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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate. A copy of the certification for the components fitted shall be provided to the end user.
- ii. When limited components are provided for applications other than the Ex db eb ia IIC T6 Gb versions, the user shall be provided with the appropriate limitation information for these components.

Specific Conditions of Use (Special Conditions)

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

i. When equipment is marked 'Ex db eb ia' the circuits are separate intrinsically safe circuits and shall be used with appropriate barriers certified for 'Ex ia IIC' outputs.