




EU Type Examination Certificate CML 18ATEX1212X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Z.1246 Explosion-proof Position Switches**
- 3 Manufacturer **Index Elektro B.V.**
- 4 Address Harregatplein 15
3214 VP Zuidland
Netherlands
- 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.
- 7 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.
- 8 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 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014
- 10 The equipment shall be marked with the following:

 II 2 G D

Ex db eb IIC T6 Gb; Ex tb IIIC T80°C Db (applicable $l_e \leq 6$ A and $-20^\circ\text{C} \leq T_a \leq +50^\circ\text{C}$)
Ex db eb IIC T5 Gb; Ex tb IIIC T95°C Db (applicable 6 A $< l_e \leq 10$ A and $-20^\circ\text{C} \leq T_a \leq +40^\circ\text{C}$)

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11 Description

The Z1246 Explosion-proof Position Switches comprise a CZ0207 Switch Module installed inside an enclosure with a push rod and operating head. The enclosure is manufactured from plastic and comprises a body and cover which are assembled together with a M3 screw, the cover sealing being provided by a silicone rubber O-ring inside a groove between the body and cover. The CZ0207 Switch Module is certified as an Ex component under certificate Sira 16ATEX1172U and is marked Ex db eb IIC Gb.

The push rod and operation head are the mechanical operator of the position switch which pass through a side wall of enclosure, the joints between pushing rod, operation head and body of enclosure are sealed by the silicone rubber seal gasket or O-ring. There is an M20 threaded hole on another side wall of the enclosure for suitably ATEX certified cable entry device.

All joints of enclosure are sealed with silicone rubber seal gasket to ensure ingress protection of enclosure to comply with IP66.

The type designation of Z.1246 is as follows:

Z.	12	46	/ 1	-□	-□	-□		
								-- Code of trigger head
								00: Trigger head is not required
								01: spring returning, two-ways
							-----	Code of operator
								See Table 1
							-----	Contact point
								O: 1NO+1NC (Slow-action)
								1: 2NC (Slow-action)
								2: 2NO (Slow-action)
								3: 1NO+1NC (Snap-action)
							-----	Material Code:1
								material of enclosure
								is plastic
							-----	Design number
							-----	Year No. of product development
							-----	Abbreviation code of manufacturer name

Model ratings of Z.1246 are as follows:

Rated current: Max. 10A

Rated voltage: Max. AC 320V 50/60Hz or Max. DC 250V



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Table 1

Code of operator	Type of operation head		Code of operator	Type of operation head
ZCE02	ZCE02 Operation head		ZCEF0	ZCEF0 Operation head
ZCE06	ZCE06 Operation head		ZCEF2	ZCEF2 Operation head
ZCE10	ZCE10 Operation head		ZCY18	ZCY18 Operation head
ZCE11	ZCE11 Operation head		ZCY39	ZCY39 Operation head
ZCE21	ZCE21 Operation head		ZCY45	ZCY45 Operation head
ZCE27	ZCE27 Operation head		ZCY49	ZCY49 Operation head
ZCE28	ZCE28 Operation head		-	-

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	23 Jul 2018	R11859A/00	Issue of prime certificate

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.

- 13.1 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.
- 13.2 A dielectric strength of 1,640 V ac shall be applied between the terminals and enclosure and between different terminals for at least 60 s as required by EN 60079-7:2015 clause 6.1, or 1.2 times test voltage for at least 100 ms as required by EN 60079-7:2015 clause 7.1.

14 Specific Conditions of Use (Special Conditions)

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

- 14.1 Z.1246 Explosion-proof Position Switches shall only be fitted in low impact risk areas.
- 14.2 Only a suitably ATEX certified cable entry device or stopping plug shall be used. The IP (ingress protection) of cable glands and stopping plugs shall be at least IP66.
- 14.3 The flameproof joint of the CZ0207 Explosion-proof Switch Module shall not be repaired.
- 14.4 The rated cross-section of the terminal's conductor of the CZ0207 Explosion-proof Isolation Switch Module is 2.5mm², the tightening torque shall be 0.5 Nm.
- 14.5 The tightening torque of the screw used to secure the cover and body of the enclosure of Z.1246 Explosion-proof Position Switches shall be 0.5 to 0.7 Nm.

Certificate Annex



Certificate Number CML 18ATEX1212X
Equipment Z.1246 Explosion-proof Position Switches
Manufacturer Index Elektro B.V.

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

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Drawing No	Sheets	Rev	Approved date	Title
8Z.1246.000 Drive	1 of 1	-	23 Jul 2018	Label position switch