

(1) EU-Type-Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV CY 24 ATEX 0207255 X

(4) for the equipment: Magnetic contact
Type: MCX240-****

(5) of the manufacturer: **ALARMTECH Sweden AB**

(6) Address: Staffans Väg 6A, S-192 78 Sollentuna, Sweden

Order number: 0207255

Date of issue: 2025-02-24

- (7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
- (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 24 0207255.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-18:2015 EN 60079-18:2015/A1:2017
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

 **II 1G Ex ma IIC T6 Ga**

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous



Accredited by CYS- CYSAB
Certificate No. C 004-3

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(13) SCHEDULE

(14) EU-Type-Examination Certificate No. TÜV CY 24 ATEX 0207255 X

(15) Description of equipment

The MCX240-**** is a heavy duty magnetic contact used in both alarm and security access control systems for protection of garage doors, industrial gates etc. against unauthorised opening. The electronic board is contained inside a metallic enclosure and encapsulated with an epoxy compound. The equipment is provided with a permanently connected cable, encapsulated to the enclosure. The type of protection is by encapsulation "Ex ma" and the equipment is suitable for gas Group IIC.

Type code identification:

This certificate covers the magnetic contact type MCX240-****. The asterisks in this document are used in place of one or more optional character(s) concerning additional information about the equipment, as specified in the following table:

MCX240	-*	***	
			Magnetic contact with single reed switch
			Blank space: no resistors -1x : 1 resistor -2x : 2 resistors
			Resistance value (kOhm)

Technical data:

The equipment must be connected by means of the cable leads to a power supply circuit with a maximum rated voltage according to the following table, and protected by a suitable fuse installed between the equipment and the power supply.

Model name	Resistor (Ohm)	Max supply voltage (V)	In fuse (max) (mA)
MCX240	/	48	294
MCX240-1x1k	1000	18.5	18.5
MCX240-1x2k2	2200	27.5	12.5
MCX240-1x4k7	4700	40.5	8.5
MCX240-1x5k6	5600	44	8
MCX240-1x6k8	6800	48	7
MCX240-1x10k	10000	48	6
MCX240-1x16k2	16200	48	4.5

Model name	Resistor (Ohm)	Max supply voltage (V)	In fuse (max) (mA)
MCX240-2x1k	1000	13	13
MCX240-2x2k2	2200	19.5	9
MCX240-2x4k7	4700	28.5	6
MCX240-2x5k6	5600	31	5.5
MCX240-2x6k8	6800	34.5	5
MCX240-2x10k	10000	41.5	4
MCX240-2x16k2	16200	48	3.3

Ratings:

The fuse shall comply with IEC 60127 or ANSI/UL 248 series. The short-circuit breaking capacity of the fuse shall be minimum 1500 A with rated voltage equal to or higher than the rated voltage of the equipment.

Allowable ambient temperature range:

T.amb.: $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

Warning labels:

None

(16) Test documents are listed in the test report No. 24 0207255

(17) Special conditions for safe use

- The equipment shall be protected by a suitable external fuse as indicated in technical data and in the safety instruction.
- The device has a permanently connected cable. The free end of the cable has to be connected in an enclosure made in one or more of types of protection listed in EN 60079-0 and compatible with the classification of the hazardous zone, or it has to be connected outside of the hazardous area.

(18) Essential Health and Safety Requirements

This EU type-examination certificate covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU. No additional ones.