



THE MCX SERIES

**ATEX-approved magnetic contacts
and accessories for explosive
environments**

UNDERSTANDING ATEX

In many types of facilities – such as battery storage, chemical warehouses, refineries, paint and coating industries, pharmaceutical production, mines, gas and oil plants, wastewater treatment facilities, and the food industry – explosive atmospheres can form from gases, vapors, or dust.

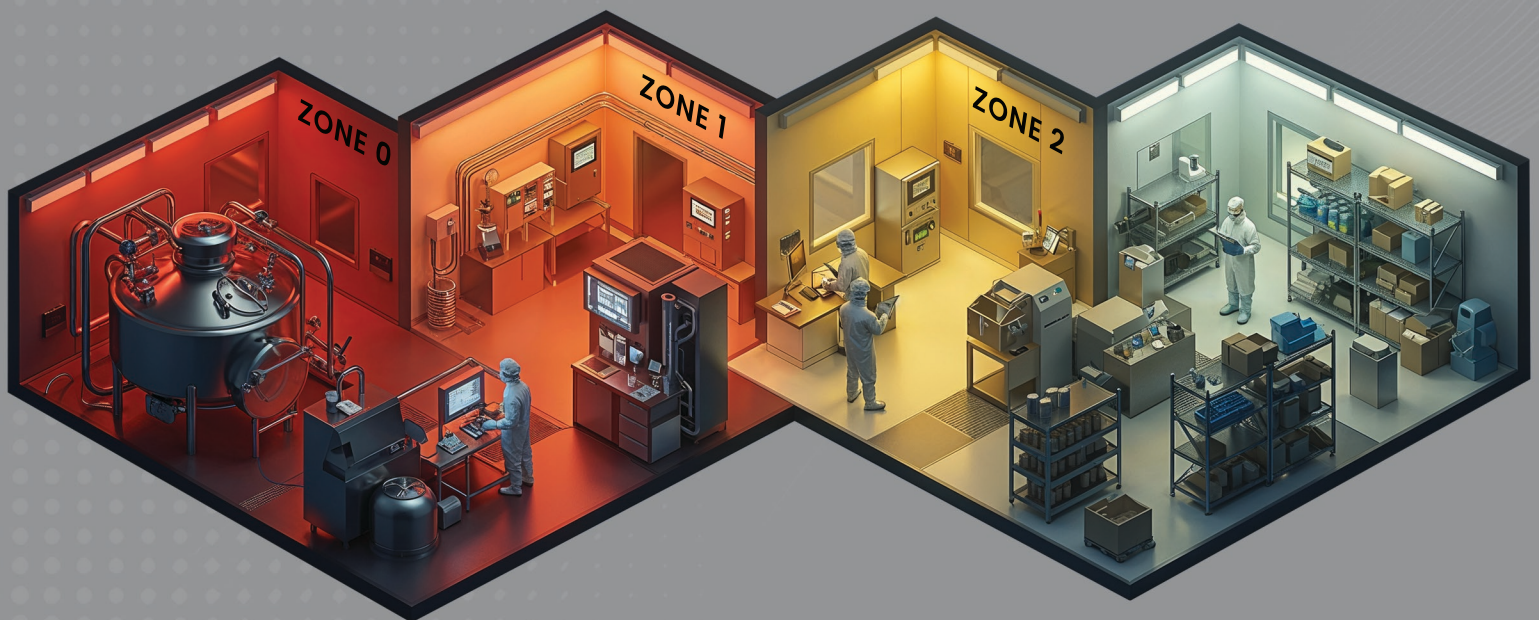


Explosive atmospheres are classified into zones based on the frequency and duration of the presence of explosive gases, vapors, or dusts. These zones help determine what types of certified equipment can be safely used in each environment.

For Gases and Vapors / Dust

- **Zone 0 / 20** – An area where an explosive atmosphere is present continuously or for long periods.
- **Zone 1 / 21** – An area where an explosive atmosphere is likely to occur in normal operation.
- **Zone 2 / 22** – An area where an explosive atmosphere is not likely in normal operation, and if it occurs, it will persist only for a short time.

To install electrical equipment in these zone-classified areas, the product must meet strict requirements under the ATEX directive.



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OUR PRODUCTS ARE



THE MCX-SERIES

Alarmtech's ATEX-certified magnetic contact is engineered specifically for installation in Zone 0/20 environments, where explosive atmospheres are continuously present.

Designed with maximum safety and reliability in mind, the contact is certified by TÜV according to:

EN IEC 60079-0:2018

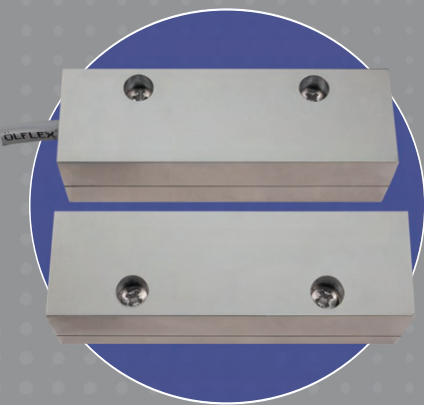
EN 60079-18:2015

EN 60079-18:2015/A1:2017

Ensuring full compliance with stringent international standards.

To maintain certified protection, the contact must always be connected to Alarmtech's dedicated MCX FuseBox, which is installed outside Zone 2/22. This box has been specially developed by Alarmtech to ensure safe, effective operation of the magnetic contact in hazardous areas.

The system is fully compatible with all standard security and intrusion detection systems on the market, offering flexible integration without compromising safety. Trusted by professionals across industrial facilities, chemical plants, and other high-risk environments, Alarmtech's magnetic contact and FuseBox solution ensures certified performance and long-term reliability where it matters most.



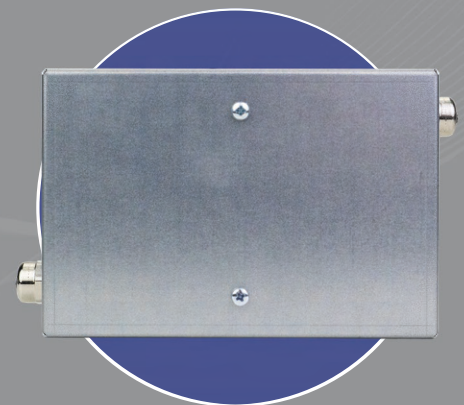
MCX 240

Standard contact



MCX 270

High-security contact



MCX FuseBox

FuseBox with
4 in- and 4 outputs

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TECHNICAL SPECIFICATIONS

MCX 240



When MCX 240 is installed in explosive environments MCX FuseBox must be used.

Max fuse is fast-acting 290mA and the fuse box must be placed outside explosive environment zones in series with the contact. In case of MCX 240 -R / -2R other fuse values are required, please see manual.

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.

Working environment	Wood/non-ferromagnetic	Steel (with mounting plate)
Make distance	typ. 47 mm	typ. 33 mm
Break distance	typ. 53 mm	typ. 37 mm
Contact type	form A, SPST	
Switching voltage max.	48 V DC/AC	
Switching current max.	500 mA DC/peak AC	
Contact rating max.	10 W	
Cable	φ 5.8 mm, 4x0,5 mm ² (φ 5.1 mm, 2x0,5 mm ² with resistors)	
Environmental class (EN50130-5:2011)	IIIA	
Operating temperature range	-40°C to +70°C (Fuse box 3401.7703 -20°C to +70°C)	
Operating humidity	max. 95% RH	
Housing protection	IP67, IK04	
Housing material	Zamak 3, nickel plated	
Total weight (including two mounting plates)	1180 g	
Dimensions, Contact part	100 x 20 x 31 mm (weight 375 g)	
Dimensions, Magnet part	100 x 20 x 31 mm (weight 400 g)	
Security grade (EN50131-2-6:2008)	2	
Approvals	TÜV, II 1 G Ex ma IIC T6 Ga (TÜV CY 24 ATEX 0207255 X) VdS, class B, EN 50131-2-6 Grade 2 Pending	

MCX 270



When MCX 270 is installed in explosive environments MCX FuseBox must be used.

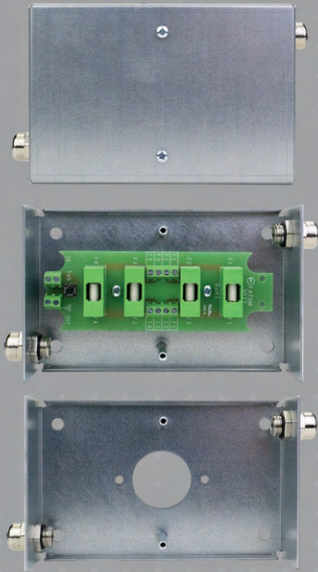
Max fuse is fast-acting 290mA and the fuse box must be placed outside explosive environment zones in series with the contact. In case of MCX 270 -R / -2R other fuse values are required, please see manual.

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.

Working environment	Wood/non-ferromagnetic	Steel (with mounting plate)
Make distance	typ. 39 mm	typ. 26 mm
Break distance	typ. 46 mm	typ. 30 mm
Sabotage distance	max. 14 mm	max. 9 mm
Contact type	form A, SPST	
Switching voltage max.	48 V DC/AC	
Switching current max.	500 mA DC/peak AC	
Contact rating max.	10 W	
Cable	φ 5.8 mm, 4x0,5 mm ² (φ 5.1 mm, 2x0,5 mm ² with resistors)	
Environmental class (EN50130-5:2011)	IIIA	
Operating temperature range	-40°C to +70°C (Fuse box 3401.7703 -20°C to +70°C)	
Operating humidity	max. 95% RH	
Housing protection	IP67, IK04	
Housing material	Zamak 3, nickel plated	
Total weight (including two mounting plates)	1180 g	
Dimensions, Contact part	100 x 20 x 31 mm (weight 375 g)	
Dimensions, Magnet part	100 x 20 x 31 mm (weight 400 g)	
Security grade (EN50131-2-6:2008)	3	
Approvals	TÜV, II 1 G Ex ma IIC T6 Ga (TÜV CY 24 ATEX 0207256 X) VdS, class B, EN 50131-2-6 Grade 3 Pending	

TECHNICAL SPECIFICATIONS

MCX FuseBox



Supply voltage DC	0 ÷ 40 V
Supply voltage AC	0 ÷ 40 Vrms, 47 ÷ 63 Hz
Maximum input current	8 A
Number of input/output channels	4/4
Maximum current in every channel	< 2 A (depending on selected fuse) 250mA (fast acting) supplied for ATEX applications.
Sabotage switch	Max 12 VDC / 50 mA
Cable outer diameter	3-6 mm
Environmental class	EN 50130-5, Class II
Operating temperature	-20°C to +70°C
Operating humidity	max. 95% RH
Housing protection	IP4x
Housing material	Magnelis®
Total weight	415 g
Dimensions	130 x 87 x 38 mm (plus approx. 20 mm each side for cable glands)

Compliance



SETUP

To maintain certified protection, the contact must always be connected to Alarmtech's dedicated MCX FuseBox, which is installed outside Zone 2/22. The system is fully compatible with all standard security and intrusion detection systems on the market



MCX 2XX

ATEX CERTIFIED CABLE, OPTIONAL LENGHT

MCX FuseBox

INTRUSION PANEL

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WHY CHOOSE ALARMTECH PRODUCTS?

With over 30 years of experience, Alarmtech delivers reliable, high-quality detectors and accessories for professional security systems worldwide. Our products are trusted by installers, integrators, and security experts who demand performance, precision, and durability.

From magnetic contacts to vibration and seismic detectors, we provide the solutions you need to protect doors, windows, and walls in commercial, industrial, and high-security environments. Our detectors are designed to detect intrusion attempts early and accurately.

All our products are engineered for long-term performance and tested to meet stringent international standards. Many models carry certifications such as EN Grade 2 and 3, VdS, INCERT, and TÜV, and comply with key European norms including EN IEC 60079 for ATEX environments. This ensures compatibility with the most demanding professional installations.

We also manufacture steel cabinets for storing fire and security drawings—keeping critical documents safe, organized, and accessible.

At Alarmtech, we're more than a supplier—we're your security partner. Our experienced team is here to support you with expert advice, technical guidance, and fast, reliable service.

