



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx NEP 24.0033X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-11-20		
Applicant:	Schmersal Industrial Switchgear (Shanghai) Co., Ltd. No.3336 Caoying Road, Qing Pu, Shanghai 201712 China		
Equipment:	Explosion-protection Safety Interlock Switch Model EX-AZM150SK Series		
Optional accessory:			
Type of Protection:	Ex nR, tc		
Marking:	Ex nR IIC T5 Gc, Ex tc IIIC T80°C Dc Ta: -25°C≤Tamb≤+55°C		

Approved for issue on behalf of the IECEx
Certification Body:

Guo Aihua

Position:

General Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

**Shanghai Inspection and Testing Institute of Instruments
and Automatic Systems Co., Ltd. (SITI/IAS)/
National Supervision and Inspection Center for Explosion
Protection and Safety of Instrumentation (NEPSI)
103 Cao Bao Road
Shanghai 200233
China**



SITI/IAS
Worldwide Access



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Manufacturer: **Schmersal Industrial Switchgear (Shanghai) Co., Ltd.**
No.3336 Caoying Road, Qing Pu,
Shanghai 201712
China

Manufacturing
locations: **Schmersal Industrial Switchgear
(Shanghai) Co., Ltd.**
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China

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/NEP/ExTR24.0042/00](#)

Quality Assessment Report:

[DE/TUR/QAR20.0011/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Explosion-protection Safety Interlock Switch has been designed to prevent in conjunction with the control part of a machine, movable safety guards from being opened before hazardous conditions have been eliminated. The installation and maintenance requirements to the standards IEC 60079-14 and IEC 60079-17 must be met. The equipment with individual coding offers a higher protection against tampering and remain off when the guard system is unlocked or open.

The equipment consists of enclosure, sealing ring, certified cable glands, cover, back plate and supplementary enclosure.

The equipment is designed as "nR" and "tc" type and it is suitable for Zone 2 and 22 hazardous area.



Refer to annex for type designation and electrical data.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. For the requirements on the replacement frequency of product sealing ring, refer to the product manual.
2. Potential electrostatic charging hazard is existed. Clean the surface by wet cloth only.

Annex:

[IECEX NEP 24.0033X Annex.pdf](#)

<p>Shanghai Inspection and Testing Institute of Instruments and Automatic Systems Co., Ltd. (SITIIS)</p> <p>National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)</p> <p>103 Cao Bao Road, Shanghai 200233, China</p>	 
<p>Annex to IECEx Certificate of Conformity of IECEx NEP 24.0033X Issue No.0</p>	

Type designation is shown as follows:

EX-AZM150SK-①R②③④-⑤-⑥-⑦ 3G/D

- ① = Magnet / Actuator, which can be: 02/11 (Magnet: 2 NC; Actuator: 1 NO / 1 NC)
11/11 (Magnet: 1 NO / 1 NC; Actuator: 1 NO / 1 NC)
11/02 (Magnet: 1 NO / 1 NC; Actuator: 2 NC)
02/02 (Magnet: 2 NC; Actuator: 2 NC)
- ② = Coding, which can be: blank (Standard coded, actuator not included in delivery)
I (Individually coded, incl. actuator)
- ③ = Locking, which can be: blank (Power to unlock)
A (Power to lock)
- ④ = Release type, which can be: blank (Manual release)
T (Emergency Exit)
N (Emergency release)
- ⑤ = Solenoids, which can be: 024 (Rated control voltage of solenoid $U_s=24$ VDC)
110 (Rated control voltage of solenoid $U_s=110$ VAC)
230 (Rated control voltage of solenoid $U_s=230$ VAC)
- ⑥ = Actuator type, which can be: blank (Including actuator for individually)
B1 (Straight actuator B1 included)
B5 (Angled actuator B5 included)
B6L (incl. flexible actuator B6, left)
B6R (incl. flexible actuator B6, right)
- ⑦ Customer special requirement, Not related to explosion-proof performance. Which can be: blank, or one or multiple numbers, characters, or combination of letters, etc...

Electrical data:

$U_e=230$ Vac or $U_e=24$ Vdc

$I_e=4$ A

IP65/IP67