




SGSNA25EX082201X

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(1) **EX-TYPE EXAMINATION CERTIFICATE**

- (2) **Directive 2014/34/EU of the European Parliament and of the council of 26 February 2014 Equipment intended for Explosive Atmosphere -ATEX Directive**
- (3) **ProCert No** :SHEX2501000004MD
- (4) **Certificate Number** :SGSNA25EX082201X
- Issue No** :0
- (5) **Equipment** :Explosion-protection Safety Interlock Switch
- (6) **Manufacturer** :Schmersal Industrial Switchgear (Shanghai) Co., Ltd.
- (7) **Address** :No.3336 Caoying Road, Qing Pu, Shanghai, 201712, China
- (8) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (9) SGS NORTH AMERICA, INC., Notified Body Number 3015 in accordance with Article 17 and Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies, that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive, using EU Type Examination Certificate module as detailed under Annex III of this Directive.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with the following Harmonized Standards : EN 60079-0:2018, EN 60079-15:2019, EN 60079-31:2024
- Where additional criteria beyond those given here have been used, they are listed at item 16 in the Schedule.
- (11) The marking of the product shall include the following
 II 3 G Ex nR IIC T5 Gc, II 3 D Ex tc IIIC T80°C Dc. IP65/IP67
- (12) **Product Description** : EX-AZM150SK Series- Explosion-protection Safety Interlock Switch.





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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 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.

The 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...

- (13) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 15 of this certificate. {paragraph cannot be used for components}.

If the sign "U" placed behind the certificate number, it indicates that this certificate should not be confused with certificates issued for equipment of protective systems. This partial certification may not be used as basis for certification of an equipment or protective systems. "Schedule Of Limitations" is listed under item 15 of this certificate.





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- (14) This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (15) **Special conditions of safe use for “X”:**
1. Please refer to the user manual for replacement frequency of the product sealing ring.
 2. There is a Potential risk of electrostatic charging hazard. Clean the surface of the equipment by wet cloth only.
 3. The installation and maintenance of the safety interlock switch shall conform to the requirements of EN 60079-14 and EN 60079-17.
 4. End user shall select suitable cable glands for the cable entries. The cable glands shall be ATEX certified to Ex db IIC Gb, Ex tb IIIC Db, IP65/67 (or) Ex eb IIC Gb, Ex tb IIIC Db IP65/67 requirements.
 5. The equipment is always intended to be mounted on the frame of the equipment in a way where electrical continuity is maintained
- (16) Essential health and safety requirements met by compliance with the requirements mentioned in item 10 and where required, the report listed in item 3.
- (17) This Notification may be withdrawn if the manufacturer does not satisfy the requirements of the Directive or fails to maintain a quality system that can demonstrate compliance to Annex IV (or) Annex VII (or) Annex V of EU Directive 2014/34/EU.

Authorized by

Effective date: Aug 22, 2025

John Luong
Certification Manager



This certificate is issued by the company under its General Conditions for Certification Services accessible at <https://www.sgs.com/en/terms-and-conditions>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this Certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

QSF27-15-COC_3
Certification Body

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- (18) **Routine (Factory) Tests:** Under constant temperature conditions, the time interval for an internal pressure of 0.3 kPa +10%0 (30 mm water gauge) below atmospheric to change to half the initial value shall be not less than 180 s.
Alternatively following test procedures may be used.
- Under constant temperature conditions, the time interval required for an internal pressure of 3 kPa +10%0(300 mm water gauge) below atmospheric to change to 2.7 kPa (270 mm water gauge) below atmospheric shall be not less than 27 s.
 - Under constant temperature conditions, the time interval required for an internal pressure of 0.3 kPa +10%0(30 mm water gauge) below atmospheric to change to 0.27 kPa (27 mm water gauge) below atmospheric shall be not less than 27 s.

(19)	Critical Drawings and Documentation-Tabulated based on Issue Number
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Issue 0				
S. No	Drawing No.	Description	Rev.	Date
1	51504-62V90	Enclosure	5xo	2023.06.20
2	51504-U38V	Enclosure	a	2024.05.09
3	51504-63V90	Cover	1xk	2024.08.22
4	51504-U39V	Cover	a	2024.05.09
5	51504-U40V	Cover with seal	a	2024.05.09
6	103048909	Protection shield	8xb	2023.07.07
7	103048910	Back plate	4xb	2023.07.07
8	51504-70V90	Manual release	1xd	2023.03.21
9	51504-U18V	Manual release cpl.	b	2018.06.08
10	103050448	Label	1xd	2024.04.17
11	103049942	Operating Instructions	C	2024.08.02

(20)	Certification History
Iss. No	Purpose
0	Initial release



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